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### SAR EVALUATION REPORT

**Applicant Name:** Apple Inc. One Apple Park Way Cupertino, CA 95014 USA Date of Testing: 08/30/2021 - 09/01/2021 Test Site/Location: PCTEST Lab, Morgan Hill, CA, USA **Document Serial No.:** 1C2108120063-03.BCG (Rev 1)

FCC ID: **BCGA2576** 

APPLICANT: APPLE, INC.

**DUT Type:** Wireless Earbuds **Application Type:** Certification FCC Rule Part(s): CFR §2.1093 Model: A2576

Equipment	Band & Mode	Tx Frequency	SAR	
Class	Bana a Mode	TXTTOquonoy	1g Head (W/kg)	1g Body- Worn (W/kg)
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.15	0.23

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.6 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.







The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info

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### **DEVICE UNDER TEST**

#### 1.1 **Device Overview**

Band & Mode	Operating Modes	Tx Frequency
Bluetooth	Data	2402 - 2480 MHz

#### 1.2 **Power Reduction for SAR**

There is no power reduction used for any band/mode implemented in this device for SAR purposes.

#### 1.3 **Nominal and Maximum Output Power Specifications**

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

1.3.1 **Maximum Output Power** 

Mode / Band	Modulated Average (dBm)	
Bluetooth BDR	Maximum	12.50
Bidetootii BDK	Nominal	11.50
Bluetooth EDR	Maximum	9.00
Bluetootii EDR	Nominal	8.50
Bluetooth BLE	Maximum	9.00
Diuetooth Ble	Nominal	8.00

#### 1.4 **DUT Antenna Locations**

Based on the expected use conditions, Head SAR was evaluated. Per manufacturer request, Body-Worn SAR was evaluated as an additional conservative SAR test condition. The antenna is located inside BCGA2576 which is a wireless Bluetooth earbud for the Left ear. A diagram showing the location of the device antenna can be found in Appendix E. More information about the configurations evaluated for SAR can be found in Section 4.2 and Section 4.3.

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## 1.5 Simultaneous Transmission Capabilities

This Device does not support any Simultaneous transmission Scenarios.

## 1.6 Guidance Applied

- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)

#### 1.7 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 9.

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### INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

#### 2.1 **SAR Definition**

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density ( $\rho$ ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

### Equation 2-1 **SAR Mathematical Equation**

$$SAR = \frac{d}{dt} \left( \frac{dU}{dm} \right) = \frac{d}{dt} \left( \frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

 $\sigma$  = conductivity of the tissue-simulating material (S/m)

= mass density of the tissue-simulating material (kg/m<sup>3</sup>)

E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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#### 3.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE 1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.

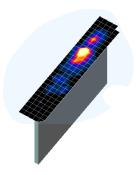


Figure 3-1 Sample SAR Area Scan

- 3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
  - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 3-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
  - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
  - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 3-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04\*

	Maximum Area Scan			Maximum Zoom Scan Spatial Resolution (mm)		
Frequency	Resolution (mm) (Δx <sub>area</sub> , Δy <sub>area</sub> )	Resolution (mm) (Δx <sub>200m</sub> , Δy <sub>200m</sub> )	Uniform Grid	G	raded Grid	Volume (mm) (x,y,z)
	alca yarcay	1 200117	Δz <sub>zoom</sub> (n)	Δz <sub>zoom</sub> (1)*	Δz <sub>zoom</sub> (n>1)*	, ,,, ,
≤ 2 GHz	≤ 15	≤8	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤5	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤5	≤4	≤3	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤4	≤3	≤2.5	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤2	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥22

<sup>\*</sup>Also compliant to IEEE 1528-2013 Table 6

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### 4 TEST CONFIGURATION POSITIONS

#### 4.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\epsilon = 3$  and loss tangent  $\delta = 0.02$ .

### 4.2 Positioning for Head

This device is a wireless Bluetooth earbud for the left ear which is designed to be used in the ear canal. The antenna is located inside the earbud. SAR was evaluated with a separation distance of 0 mm between the earbud (the ear tip facing the phantom) and the flat phantom. The phantom is filled with head tissue equivalent medium.

### 4.3 Body-Worn Exposure Conditions

Per manufacturer request, Body-Worn SAR was evaluated as an additional conservative SAR test condition for the left earbud. The DUT was evaluated with a separation distance of 0 mm between the back side of the earbud and the flat phantom. The phantom is filled with body tissue equivalent medium.

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### RF EXPOSURE LIMITS

#### 5.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

#### 5.2 **Controlled Environment**

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e., as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 5-1 SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS									
	UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT Occupational (W/kg) or (mW/g)							
Peak Spatial Average SAR Head	1.6	8.0							
Whole Body SAR	0.08	0.4							
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20							

- 1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- The Spatial Average value of the SAR averaged over the whole body.
- The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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## FCC MEASUREMENT PROCEDURES

#### 6.1 **Measured and Reported SAR**

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

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## RF CONDUCTED POWERS

#### 7.1 **Bluetooth Conducted Powers**

Table 7-1 Bluetooth Average RF Power

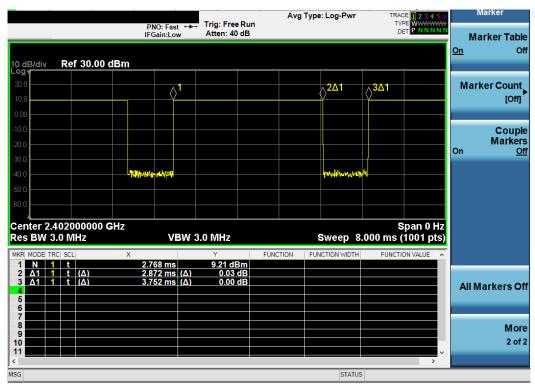
_		Data		Avg Conducted Power			
Frequency [MHz]	Modulation	Rate [Mbps]	Channel No.	[dBm]	[mW]		
2402	GFSK	1.0	0	11.95	15.668		
2441	GFSK	1.0	39	11.53	14.223		
2480	GFSK	1.0	78	11.59	14.421		

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#### **Bluetooth Duty Cycle** 7.2

#### 7.2.1 **Maximum Bluetooth Transmission**

Figure 7-1 **Bluetooth Transmission Plot** 



**Equation 7-1 Bluetooth Duty Cycle Calculation** 

$$Puty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.872\ ms}{3.752\ ms} * 100\% = 76.5\%$$

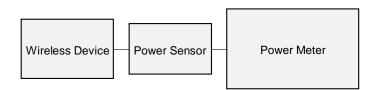


Figure 7-2 **Power Measurement Setup** 

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#### 8.1 Tissue Verification

# Table 8-1 Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε
	2450 Head	20.8	2400	1.800	38.537	1.756	39.289	2.51%	-1.91%
09/01/2021			2450	1.840	38.474	1.800	39.200	2.22%	-1.85%
09/01/2021	2450 Fleau		2480	1.860	38.422	1.833	39.162	1.47%	-1.89%
			2500	1.876	38.382	1.855	39.136	1.13%	-1.93%

# Table 8-2 Measured Body Tissue Properties

	moded od Body Floods Froporate													
Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ε	% dev σ	% dev ε					
	0450 D	22.1	2400	1.940	51.672	1.902	52.767	2.00%	-2.08%					
00/20/2024			2450	2.009	51.500	1.950	52.700	3.03%	-2.28%					
08/30/2021	2450 Body		2480	2.047	51.370	1.993	52.662	2.71%	-2.45%					
			2500	2.076	51.286	2.021	52.636	2.72%	-2.56%					

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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## 8.2 Test System Verification

Prior to SAR assessment, the system is verified to  $\pm 10\%$  of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix D.

Table 8-3
System Verification Results – 1g

	System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR <sub>1g</sub> (W/kg)	1 W Target SAR <sub>1g</sub> (W/kg)	1 W Normalized SAR <sub>1g</sub> (W/kg)	Deviation <sub>1g</sub> (%)	
AM5	2450	HEAD	09/01/2021	21.1	20.1	0.100	750	7546	5.590	53.100	55.900	5.27%	
AM1	2450	BODY	08/30/2021	22.6	21.5	0.100	750	3837	5.040	51.000	50.400	-1.18%	

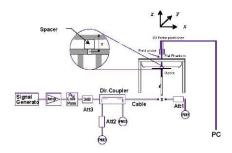


Figure 8-1
System Verification Setup Diagram



Figure 8-2
System Verification Setup Photo

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#### 9.1 Standalone Head SAR Data

#### Table 9-1 Bluetooth Head SAR

							MEAS	UREMEN	IT RESULTS							
FREQUENCY	Mode	Mode Service	Maximum Allowed	Conducted	Power		Earbud	Device Serial	Data Rate	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot#	
MHz	Ch.	wode	Service	Power [dBm]	Power [dBm]	Drift [dB]	Spacing	Earbud	Number (Mbps) C		(W/kg)	Power)	Cycle)	(W/kg)	1101#	
2402.00	0	Bluetooth	FHSS	12.50	11.95	-0.04	0 mm	Left	HJ4G303L1F13	1	76.5	0.098	1.135	1.013	0.113	
2441.00	39	Bluetooth	FHSS	12.50	11.53	0.02	0 mm	Left	HJ4G303L1F13	1	76.5	0.120	1.250	1.013	0.152	A1
2480.00	78	Bluetooth	FHSS	12.50	11.59	-0.05	0 mm	Left	HJ4G303L1F13	1	76.5	0.092	1.233	1.013	0.115	
		ANSI / IEE	E C95.1 1992	- SAFETY LII	MIT		Head									
	Spatial Peak					1.6 W/kg (mW/g)										
	Uncontrolled Exposure/General Population									averaged	over 1 gram					

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer.

### 9.2 Standalone Body-Worn SAR Data

# Table 9-2 Bluetooth Body-Worn SAR

	MEASUREMENT RESULTS																
FREQUENCY		Mode Servi			Power Drift	Spacing	Spacing Earbud	Device Serial Number	Data Rate	Side	Duty Cycle	SAR (1g)	Scaling Factor (Cond	Scaling Factor (Duty	Reported SAR (1g)	Plot #	
MHz	Ch.			Power [dBm]	Power [dBm]	[dB]			Number	(Mbps)		(%)	(W/kg) Power)	Cycle)	(W/kg)		
2402	0	Bluetooth	FHSS	12.50	11.95	-0.07	0 mm	Left	HJ4G303L1F13	1	back	76.5	0.162	1.135	1.013	0.186	
2441	39	Bluetooth	FHSS	12.50	11.53	0.00	0 mm	Left	HJ4G303L1F13	1	back	76.5	0.179	1.250	1.013	0.227	A2
2480	78	Bluetooth	FHSS	12.50	11.59	-0.06	0 mm	Left	HJ4G303L1F13	1	back	76.5	0.117	1.233	1.013	0.146	
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT					Body											
Spatial Peak				1.6 W/kg (mW/g)													
	Uncontrolled Exposure/General Population					averaged over 1 gram											

Note: The reported SAR was scaled to 77.5% transmission duty factor to determine compliance since the duty factor of the device is permanently limited to 77.5% per the manufacturer.

### 9.3 SAR Test Notes

#### **General Notes:**

- 1. Batteries are fully charged at the beginning of the SAR measurements.
- 2. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 3. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical, and thermal characteristics and are within operational tolerances expected for production units.
- 4. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 5. To demonstrate compliance for Head, SAR testing was performed on a flat phantom filled with head tissue equivalent medium.
- 6. Per manufacturer request, Body-Worn SAR was additionally evaluated as a conservative SAR test condition for the left earbud (BCGA2576).
- 7. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg.
- 8. The orange highlights throughout the report represents the highest scaled SAR per Equipment Class.

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### **Bluetooth Notes**

1. Bluetooth SAR was evaluated with a test mode with hopping disabled with DH5 operation. The reported SAR was scaled to the 77.5% transmission duty factor to determine compliance since the duty factor of the device is limited to 77.5% per the manufacturer. See section 7.2 for the time domain plot and calculation for the duty factor of the device.

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## 10 SAR MEASUREMENT VARIABILITY

## 10.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was not assessed for each frequency band since all measured SAR values are <0.8W/kg for 1g SAR.

### 10.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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## 11 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	4/14/2021	Annual	4/14/2022	US39170118
Agilent	E4438C	ESG Vector Signal Generator	12/2/2020	Annual	12/2/2021	MY42081752
Agilent	E4440A	PSA Series Spectrum Analyzer	1/29/2021	Annual	1/29/2022	MY46186272
Agilent	N5182A	MXG Vector Signal Generator	12/1/2020	Annual	12/1/2021	MY47420837
Agilent	N9020A	MXA Signal Analyzer	12/21/2020	Annual	12/21/2021	MY50200571
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1244515
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1248508
Anritsu	MA2411B	Pulse Power Sensor	3/8/2021	Annual	3/8/2022	1339007
Anritsu	ML2495A	Power Meter	11/3/2020	Annual	11/3/2021	1039008
Anritsu	ML2496A	Power Meter	2/19/2021	Annual	2/19/2022	1138001
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670623
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670633
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670635
Control Company	4040	Therm./ Clock/ Humidity Monitor	3/12/2021	Biennial	3/12/2023	210202151
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/19/2021	Biennial	2/19/2023	210114805
HEWLETT PACKARD	8753E	Network Analyzer	12/10/2020	Annual	12/10/2021	US38161081
MCL	BW-N10W5+	10dB Attenuator	CBT	N/A	CBT	1611
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	1812
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Rohde & Schwarz	FSP-7	Spectrum Analyzer	1/9/2020	Biennial	1/9/2022	100990
Seekonk	NC-100	Torque Wrench	9/24/2020	Biennial	9/24/2022	22216
Seekonk	NC-100	Torque Wrench	7/30/2020	Biennial	7/30/2022	22217
SPEAG	D2450V2	2450 MHz SAR Dipole	6/14/2019	Triennial	6/14/2022	750
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2021	Annual	1/13/2022	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/14/2021	Annual	7/14/2022	1402
SPEAG	EX3DV4	SAR Probe	1/18/2021	Annual	1/18/2022	3837
SPEAG	EX3DV4	SAR Probe	7/21/2021	Annual	7/21/2022	7546
SPEAG	MAIA	Modulation and Audio Interference Analyzer	СВТ	N/A	СВТ	1237
SPEAG	DAKS-3.5	Portable DAK	09/09/2020	Annual	09/09/2021	1045

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

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## **MEASUREMENT UNCERTAINTIES**

a	b	С	d	е=	f	g	h =	i =	k
				f(d,k)			c x f/e	c x g/e	
	IEEE	Tol.	Prob.	,	Ci	Ci	1gm	10gms	$\vdash$
Uncertainty Component	1528	(± %)	Dist.	Div.	1gm	10 gms	u <sub>i</sub>	u <sub>i</sub>	Vi
	Sec.	(± /0)	Dist.	DIV.	19111	TO giris	(± %)	(± %)	"
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	Ν	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	Ν	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	Ν	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	8
Readout Electronics	E.2.6	0.3	Ν	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	8
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	8
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	Ν	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	Ν	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	Ν	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	Ν	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1) RSS							12.2	12.0	191
Expanded Uncertainty k=2							24.4	24.0	
(95% CONFIDENCE LEVEL)									

The above measurement uncertainties are according to IEEE Std. 1528-2013

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### 13 CONCLUSION

#### 13.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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# APPENDIX A: SAR TEST DATA

## **PCTEST**

### DUT: BCGA2576; Type: Wireless Earbud; Serial: HJ4G303L1F13

Communication System: UID:10032-CAA, Bluetooth; MAIA: Y; Frequency: 2441.0 MHz

Medium: 2450 Head; Medium parameters used:

f = 2441.0 MHz; cond = 1.83 S/m; perm = 38.5; density = 1000 kg/m3

Phantom Section: Flat; Space: 0.00 mm

Test Date: 09/01/2021; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7546; ConvF:(7.23,7.23,7.23); Calibrated: 2021-07-21

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn1402; Calibrated: 2021-07-14

Phantom: Twin-SAM V8.0; Serial: 1936

Measurement SW: DASY Module SAR V16.0.0.116

### Mode: Bluetooth, Head SAR, Ch 39, 1 Mbps, Ear-tip side, Left Earbud

**Area Scan (60.0 x 60.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5

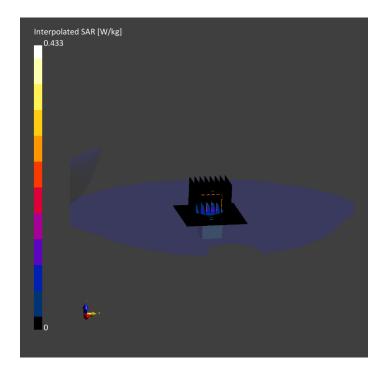
Reference Value = 0.09 W/kg; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.433 W/kg

SAR(1 g) = 0.120 W/kg

Smallest distance from peaks to all points 3 dB below is 5.8 mm

Ratio of SAR at M2 to SAR at M1 = 59.7 %



## **PCTEST**

### DUT: BCGA2576; Type: Wireless Earbud; Serial: HJ4G303L1F13

Communication System: UID:10032-CAA, Bluetooth; MAIA: Y; Frequency: 2441.0 MHz

Medium: 2450 Body; Medium parameters used:

f = 2441.0 MHz; cond = 2.00 S/m; perm = 51.5; density = 1000 kg/m<sup>3</sup>

Phantom Section: Flat; Space: 0.00 mm

Test Date: 08/30/2021; Ambient Temp: 22.6°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3837; ConvF:(7.46,7.46,7.46); Calibrated: 2021-01-18

Sensor-Surface: 1.4mm (VMS + 6p)

Electronics: DAE4 Sn793; Calibrated: 2021-01-13

Phantom: Twin-SAM V5.0; Serial: 1736

Measurement SW: DASY Module SAR V6.14.0.959

### Mode: Bluetooth, Body-Worn SAR, Ch.39, 1 Mbps, Back Side

**Area Scan (60.0 x 60.0):** Measurement grid: dx=10.0 mm, dy=10.0 mm

**Zoom Scan (30.0 x 30.0 x 30.0):** Measurement grid: dx=3.1 mm, dy=3.1 mm, dz=1.2 mm; Graded Ratio: 1.2

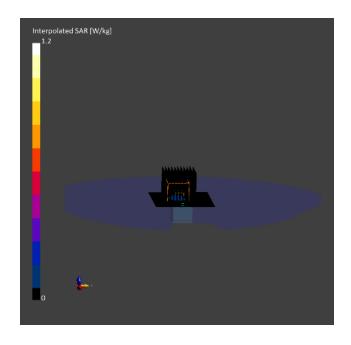
Reference Value = 0.28 W/kg; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.179 W/kg

Smallest distance from peaks to all points 3 dB below is 3.7 mm

Ratio of SAR at M2 to SAR at M1 = 55.6 %



# APPENDIX B: SYSTEM VERIFICATION

# **PCTEST**

## **DUT: Dipole 2450.0 MHz; Type: D2450V2: Serial: 750**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Head; Medium parameters used:

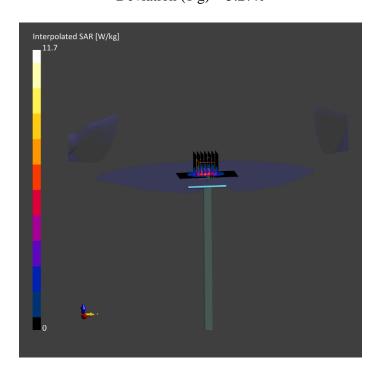
f = 2450.0 MHz; cond = 1.84 S/m; perm = 38.5; density = 1000 kg/m3
Phantom Section: Flat; Space: 10 mm

Test Date: 09/01/2021; Ambient Temp: 21.1°C; Tissue Temp: 20.1°C

Probe: EX3DV4 - SN7546; ConvF:(7.23,7.23,7.23); Calibrated: 2021-07-21 Sensor-Surface: 1.4mm (VMS + 6p) Electronics: DAE4 Sn1402; Calibrated: 2021-07-14 Phantom: Twin-SAM V8.0; Serial: 1936 Measurement SW: DASY Module SAR V16.0.0.116

### 2450.0 MHz System Verification at 20.0 dBm (100mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm Zoom Scan (30.0 x 30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5 Peak SAR (extrapolated) = 11.7 W/kg SAR (1 g) = 5.59 W/kg Deviation (1 g) = 5.27%



# **PCTEST**

### **DUT: Dipole 2450.0 MHz; Type: D2450V2: Serial: 750**

Communication System: UID: 0, CW; Frequency: 2450.0 MHz
Medium: 2450 Body; Medium parameters used:

f = 2450.0 MHz; cond = 2.01 S/m; perm = 51.5; density = 1000 kg/m3

Phantom Section: Flat; Space: 10 mm

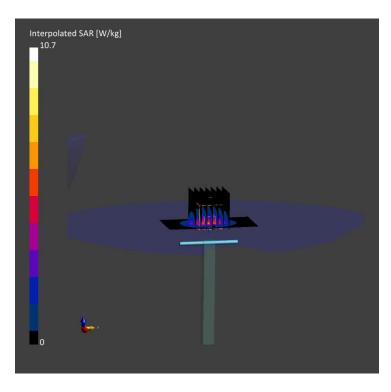
Test Date: 08/30/2021; Ambient Temp: 22.6°C; Tissue Temp: 21.5°C

Probe: EX3DV4 - SN3837; ConvF:(7.46,7.46,7.46); Calibrated: 2021-01-18 Sensor-Surface: 1.4mm (VMS + 6p) Electronics: DAE4 Sn793; Calibrated: 2021-01-13 Phantom: Twin-SAM V5.0; Serial: 1736 Measurement SW: DASY Module SAR V6.14.0.959

## 2450.0 MHz System Verification at 20.0 dBm (100mW)

Area Scan (40.0 x 80.0): Measurement grid: dx=10.0 mm, dy=10.0 mm Zoom Scan (30.0 x 30.0): Measurement grid: dx=5.0 mm, dy=5.0 mm, dz=1.5 mm; Graded Ratio: 1.5 Peak SAR (extrapolated) = 10.7 W/kg

SAR(1 g) = 5.04 W/kgDeviation (1 g) = -1.18%



# APPENDIX C: SAR TISSUE SPECIFICATIONS

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Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ε' can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{[\ln(b/a)]^{2}} \int_{a}^{b} \int_{a}^{b} \int_{0}^{\pi} \cos\phi' \frac{\exp[-j\omega r(\mu_{0}\varepsilon_{r}'\varepsilon_{0})^{1/2}]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively,  $r^2 = \rho^2 + \rho'^2 - 2\rho\rho'\cos\phi'$ ,  $\omega$  is the angular frequency, and  $j = \sqrt{-1}$ .

#### 3 Composition / Information on ingredients

#### 3.2 Mixture

Description: Aqueous solution with surfactants and inhibitors Declarable, or hazardous components:

Decidiable, or mazaraede compen		
CAS: 107-21-1	Ethanediol	>1.0-4.9%
EINECS: 203-473-3	STOT RE 2, H373;	
Reg.nr.: 01-2119456816-28-0000	Acute Tox. 4, H302	
CAS: 68608-26-4	Sodium petroleum sulfonate	< 2.9%
EINECS: 271-781-5	Eye Irrit. 2, H319	
Reg.nr.: 01-2119527859-22-0000		
CAS: 107-41-5	Hexylene Glycol / 2-Methyl-pentane-2,4-diol	< 2.9%
EINECS: 203-489-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Reg.nr.: 01-2119539582-35-0000		
CAS: 68920-66-1	Alkoxylated alcohol, > C <sub>16</sub>	< 2.0%
NLP: 500-236-9	Aquatic Chronic 2, H411;	
Reg.nr.: 01-2119489407-26-0000	Skin Irrit. 2, H315; Eye Irrit. 2, H319	

#### Additional information:

For the wording of the listed risk phrases refer to section 16.

Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential. The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

#### Figure C-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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4500 5500

4500 5500

-1.5 2.3

-1.6 2.5

-1.7 2.8

-2.0 3.8 -2.1 5.88 -2.3 4.8 -2.4 -2.7 6.00

5.3

6.3

3.31 5.30

5.36

5.42

5.65

6.23

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

#### Measurement Certificate / Material Test

Item Name	Body Tissue Simulating Liquid (MBBL600-6000V6)	
Product No.	SL AAM U16 BC (Batch: 200803-1)	
Manufacturer	SPEAG	

#### Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters
Target parameters as defined in the KDB 865664 compliance standard.

#### Test Condition

Ambient Condition 22°C ; 30% humidity TSL Temperature 22°C

Test Date 6-Aug-20 Operator

Additional Information
TSL Density

TSL Heat-capacity

	Measu	ired		Targe	t	Diff.to Tar	get [%]	15.0	Total			
f [MHz]	e'	е"	sigma	eps	sigma	∆-eps	∆-sigma	10.0		100		100
600	56.3	26.8	0.89	56.1	0.95	0.3	-6.3	≈ 5.0				
750	55.8	22.6	0.94	55.5	0.96	0.5	-2.1	Permittivity 0.0 0.0		_		
800	55.7	21.6	0.96	55.3	0.97	0.7	-1.0	E O.O				
825	55.7	21.1	0.97	55.2	0.98	0.8	-1.0	100				
835	55.7	20.9	0.98	55.1	0.99	1.0	-0.5	≧-10.0	1900			0.757
850	55.6	20.7	0.98	55.2	0.99	0.8	-1.0	-15.0	500	1500	2600	360
900	55.5	19.9	1.00	55.0	1.05	0.9	-4.8		000	1500	Freque	ncy MH
1400	54.7	15.9	1.24	54.1	1.28	1.1	-3.1	15.0	_			
1450	54.6	15.8	1.27	54.0	1.30	1.1	-2.3	10.0				201
1600	54.4	15.3	1.36	53.8	1.39	1.1	-2.2	%			N	
1625	54.4	15.3	1.38	53.8	1.41	1.2	-2.1	0.0 ctivity	9	1	1	
1640	54.4	15.2	1.39	53.7	1.42	1.3	-2.1	- F	Λ	1	1	
1650	54.3	15.2	1.39	53.7	1.43	1.1	-2.8		1			-
1700	54.2	15.1	1.43	53.6	1.46	1.2	-2.1	à-10.0	9.00		300	1863
1750	54.2	15.0	1.46	53.4	1.49	1.4	-2.0	-15.0	500	1500	2500	350
1800	54.1	14.9	1.50	53.3	1.52	1.5	-1.3		,,,,	1500	Freque	ncy MH
1810	54.1	14.9	1.51	53.3	1.52	1.5	-0.7	3500	51.4	16.0	3.11	51.3
1825	54.1	14.9	1.52	53.3	1.52	1.5	0.0	3700	51.1	16.2	3.34	51.1
1850	54.0	14.9	1.53	53.3	1.52	1.3	0.7	5200	48.3	18.7	5.42	49.0
1900	54.0	14.8	1.57	53.3	1.52	1.3	3.3	5250	48.2	18.8	5.50	49.0
1950	53.9	14.8	1.60	53.3	1.52	1.1	5.3	5300	48.1	18.9	5.57	48.9
2000	53.8	14.8	1.64	53.3	1.52	0.9	7.9	5500	47.7	19.2	5.86	48.6
2050	53.8	14.7	1.68	53.2	1.57	1.1	7.0	5600	47.5	19.3	6.01	48.5
2100	53.7	14.7	1.72	53.2	1.62	1.0	6.2	5700	47.3	19.4	6.16	48.3
2150	53.7	14.7	1.76	53.1	1.66	1.1	6.0	5800	47.0	19.6	6.32	48.2
2200	53.6	14.7	1.80	53.0	1.71	1.1	5.3	6000	46.6	19.8	6.62	47.9
2250	53.5	14.8	1.85	53.0	1.76	1.0	5.1	6500			214	
2300	53.5	14.8	1.89	52.9	1.81	1.1	4.4	7000				
2350	53.4	14.8	1.94	52.8	1.85	1.1	4.9	7500	E 10			
2400	53.3	14.8	1.98	52.8	1.90	1.0	4.2	8000			100	
2450	53.3	14.9	2.03	52.7	1.95	1.1	4.1	8500			038	
2500	53.2	14.9	2.07	52.6	2.02	1,1	2.5	9000	White			
2550	53.1	15.0	2.12	52.6	2.09	1.0	1.4	9500	1531		301.7	
2600	53.0	15.0	2.17	52.5	2.16	0.9	0.5	10000				

Figure C-2 600 - 5800 MHz Body Tissue Equivalent Matter

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Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

#### Measurement Certificate / Material Test

Head Tissue Simulating Liquid (HBBL600-10000V6) SL AAH U16 BC (Batch: 200805-4) Item Name

Product No.

Manufacturer SPEAG

#### Measurement Method

TSL dielectric parameters measured using calibrated DAK probe.

Target parameters as defined in the IEEE 1528 and IEC 62209 compliance standards.

#### **Test Condition**

Ambient Condition 22°C; 30% humidity

TSL Temperature 22°C 6-Aug-20 Test Date

Operator CL
Additional Information
TSL Density

TSL Heat-capacity

	Measu	ired		Targe	t	Diff.to Targ	get [%]	15.0							-
[MHz]	e'	e"	sigma	eps	sigma	∆-eps	∆-sigma	10.0							
600	44.7	25.7	0.86	42.7	0.88	4.6	-2.5	% 5.0							
750	44.1	21.7	0.90	41.9	0.89	5.1	0.7								
800	44.0	20.7	0.92	41.7	0.90	5.6	2.5	Permittivity 0.0					-		
825	43.9	20.3	0.93	41.6	0.91	5.6	2.6	E -5.0						-	-
835	43.9	20.1	0.94	41.5	0.91	5.7	3.1	10.0	900/4	A 100	10.00				
850	43.8	19.9	0.94	41.5	0.92	5.5	2.6		00 450	0.000	0500 450	0 5500 0	500 7500	0500 0	-00
900	43.7	19.1	0.96	41.5	0.97	5.3	-1.0	5	150	0 2500	Frequen		500 7500	8500 95	500
1400	42.7	15.1	1.18	40.6	1.18	5.2	0.0	15.0							
1450	42.6	14.9	1.20	40.5	1.20	5.2	0.0	10.0			NEWS !	mark sin			PU
1600	42.4	14.4	1.28	40.3	1.28	5.2	-0.3	28		٨				37.63	
1625	42.4	14.4	1.30	40.3	1.30	5.3	0.1	₹ 5.0	A	1					
1640	42.4	14.3	1.31	40.3	1.31	5.3	0.3	5.0 5.0 5.0 5.0	10	1					
1650	42.3	14.3	1.31	40.2	1.31	5.1	-0.2	02-5.0							
1700	42.2	14.2	1.34	40.2	1.34	5.1	-0.2	215.0	ATE !					ME IS	
1750	42.2	14.1	1.37	40.1	1.37	5.3	-0.1		00 150	2500	3500 450	0 5500 6	500 7500	8500 95	500
1800	42.1	14.0	1.40	40.0	1.40	5.3	0.0				Frequer	ncy MHz			*****
1810	42.1	14.0	1.41	40.0	1.40	5.3	0.7	3500	39.4	14.2	2.77	37.9	2.91	3.7	-5
1825	42.1	13.9	1.42	40.0	1.40	5.3	1.4	3700	39.0	14.3	2.95	37.7	3.12	3.5	-5
1850	42.0	13.9	1.43	40.0	1.40	5.0	2.1	5200	36.4	15.9	4.61	36.0	4.66	1.3	-1
1900	41.9	13.8	1.46	40.0	1.40	4.7	4.3	5250	36.4	16.0	4.67	35.9	4.71	1.2	-0
1950	41.9	13.8	1.49	40.0	1.40	4.7	6.4	5300	36.3	16.0	4.72	35.9	4.76	1.1	-0
2000	41.8	13.7	1.53	40.0	1.40	4.5	9.3	5500	35.9	16.2	4.96	35.6	4.96	0.7	-0
2050	41.7	13.7	1.56	39.9	1.44	4.5	8.0	5600	35.7	16.3	5.07	35.5	5.07	0.5	0
2100	41.7	13.7	1.60	39.8	1.49	4.7	7.5	5700	35.5	16.4	5.19	35.4	5.17	0.3	0
2150	41.6	13.6	1.63	39.7	1.53	4.7	6.3	5800	35.4	16.5	5.31	35.3	5.27	0.1	0
2200	41.5	13.6	1.67	39.6	1.58	4.7	5.8	6000	35.0	16.6	5.54	35.1	5.48	-0.2	1
2250	41.5	13.6	1.70	39.6	1.62	4.9	4.8	6500	34.1	17.1	6.17	34.5	6.07	-1.1	1
	41.4	13.6	1.74	39.5	1.67	4.9	4.4	7000	33.2	17.4	6.78	33.9	6.65	-2.0	2
2300	41.3	13.6	1.78	39.4	1.71	4.9	4.0	7500	32.3	17.7	7.40	33.3	7.24	-2.9	2
2300 2350	41.3		1.82	39.3	1.76	4.9	3.7	8000	31.5	18.0	8.01	32.7	7.84	-3.8	2
	41.2	13.6	1.02				19090	8500	30.6	18.2	8.63	32.1	8.45	14.00	2
2350		13.6	1.85	39.2	1.80	5.1	2.8	8500	30.0		0.00	32.1	0.40	-4.7	-
2350 2400	41.2			39.2 39.1	1.80 1.85	5.1 5.0	1.9	9000	29.8	18.4	9.24	31.5	9.08	-5.6	1
2350 2400 2450	41.2 41.2	13.6	1.85			1 330	(7.55		I STATE OF	10000	-0.00		57.55		

Figure C-3 600 - 5800 MHz Head Tissue Equivalent Matter

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# APPENDIX D: SAR SYSTEM VALIDATION

FCC ID: BCGA2576	PCTEST SAR EVALUATION REPOR	Approved by: Quality Manager
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Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table D-1 SAR System Validation Summary – 1α

					OAIL (	Jyaicii	ı vanu	ation Sum	ıııaı y — ış	1			
SAR	Freq.		Probe			Cond.	Perm.	С	W VALIDATION	i	MOI	. VALIDATIO	N
System	(MHz)	Date	SN	Probe 0	Cal Point	(σ)	(Er)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
AM5	2450	08/26/2021	7546	2450	Head	1.750	37.900	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
AM1	2450	04/28/2021	3837	2450	Body	2.020	50.614	PASS	PASS	PASS	OFDM/TDD	PASS	PASS

NOTE: The probes have been calibrated for both CW and modulated signals. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.

FCC ID: BCGA2576	PCTEST* Poud to be part of @ sterred SAR EVALUATION REPORT	Approved by:  Quality Manager
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# APPENDIX F: PROBE AND DIPOLE CALIBRATION

### Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
Service eulese d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Client

PC Test

Cartificate No. D2450V2-750\_Jun19

alibration procedure(s)	QA CAL-05.v11 Callbration Proce	dure for SAR Validation Sources	######################################
Calibration date:	Calibration Proce	dure for SAR Validation Sources	between 0.7-3 GHZ VITU
Callbration date:			レルル
Calibration date:			
Calibration date:			biala o
	June 14, 2019		1/3/20
	and organization of the will be to provide a property of a section		
			$\sqrt{ATW}$
his calibration certificate docume	nts the traceablilty to nati	onal standards, which realize the physical uni	ils of measurements (SI).
		robability are given on the following pages an	
	·	, -	7/10/20
All calibrations have been conduct	ed in the closed laborator	y facility: environment temperature (22 ± 3)°C	G and humidity < 70%.
Calibration Equipment used (M&T	E critical for calibration)		
21	Lin ii	0.10.1.70.1%	Out a daile d Outlbook to a
Primary Standards	1D #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: 5058 (20k)	04-Apr-19 (No. 217-02894)	Apr-20
Type-N mismatch combination	SN: 5047,2 / 06327	04-Apr-19 (No. 217-02895)	Apr-20
Reference Probe EX3DV4	SN: 7349	29-May-19 (No. EX3-7349_May19)	May-20
DAE4	SN: 601	30-Apr-19 (No. DAE4-801_Apr19)	Apr-20
	ID#	0. 15 : 6 1 )	
Secondary Standards		Check Date (in house)	Scheduled Check
· · · · · · · · · · · · · · · · · · ·	SN: GB39512475	30-Oct-14 (in house check Feb-19)	Scheduled Check In house check; Oct-20
Power meter E4419B		A A	
Power meter E4419B Power sensor HP 8481A	SN: GB39512475	30-Oct-14 (in house check Feb-19)	In house check: Oct-20
Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A	SN: GB39512475 SN: US37292783	30-Oct-14 (in house check Feb-19) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18)	In house check: Oct-20 In house check: Oct-20
Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972	30-Oct-14 (in house check Feb-19) 07-Oct-15 (in house check Oct-18)	In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06	SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477	30-Oct-14 (in house check Feb-19) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18)	In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-19
Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agllent E8358A	SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477	30-Oct-14 (in house check Feb-19) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18) Function	In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agllent E8358A	SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477	30-Oct-14 (in house check Feb-19) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18)	In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-19 Signature
Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agllent E8358A	SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477	30-Oct-14 (in house check Feb-19) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18) Function Laboratory Technician	In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-19
Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agllent E8358A Calibrated by:	SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477 Name Michael Weber	30-Oct-14 (in house check Feb-19) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18)  Function Laboratory Technician	In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-19 Signature
Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Agllent E8358A Calibrated by:	SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477 Name Michael Weber	30-Oct-14 (in house check Feb-19) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18) Function Laboratory Technician	In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-19 Signature
Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A Power sensor HP 8481A RF generator R&S SMT-06 Network Analyzer Aglient E8358A Calibrated by: Approved by:	SN: GB39512475 SN: US37292783 SN: MY41092317 SN: 100972 SN: US41080477 Name Michael Weber	30-Oct-14 (in house check Feb-19) 07-Oct-15 (in house check Oct-18) 07-Oct-15 (in house check Oct-18) 15-Jun-15 (in house check Oct-18) 31-Mar-14 (in house check Oct-18)  Function Laboratory Technician	In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-20 In house check; Oct-19 Signature

Certificate No: D2450V2-750\_Jun19

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## Calibration Laboratory of

Schmid & Partner **Enaineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C Servizio svizzero di taratura **Swiss Calibration Service** 

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

### Glossary:

TSL

tissue simulating liquid

ConvF N/A

sensitivity in TSL / NORM x,y,z not applicable or not measured

### Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Additional Documentation:

e) DASY4/5 System Handbook

### **Methods Applied and Interpretation of Parameters:**

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D2450V2-750\_Jun19 Page 2 of 8

#### **Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.2
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, $dy$ , $dz = 5$ mm	
Frequency	2450 MHz ± 1 MHz	

# **Head TSL parameters**

The following parameters and calculations were applied.

Temperature Per			Conductivity	
Nominal Head TSL parameters	22.0 °C	22.0 °C 39.2		
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.9 ± 6 %	1.86 mho/m ± 6 %	
Head TSL temperature change during test	< 0.5 °C			

#### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.6 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.1 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.0 W/kg ± 16.5 % (k=2)

# **Body TSL parameters**

The following parameters and calculations were applied.

Temperature Permittivity		Conductivity	
Nominal Body TSL parameters	22.0 °C	22.0 °C 52.7	
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.0 ± 6 %	2.03 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

# SAR result with Body TSL

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	13.1 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	51.0 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.12 <b>W</b> /kg
SAR for nominal Body TSL parameters	normalized to 1W	24.1 W/kg ± 16.5 % (k=2)

Certificate No: D2450V2-750\_Jun19

### Appendix (Additional assessments outside the scope of SCS 0108)

#### **Antenna Parameters with Head TSL**

Impedance, transformed to feed point	53.7 Ω + 3.9 jΩ		
Return Loss	- 25.7 dB		

#### **Antenna Parameters with Body TSL**

Impedance, transformed to feed point	$50.3 \Omega + 6.2 j\Omega$	
Return Loss	- 24.2 dB	

#### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.154 ns
----------------------------------	----------

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

#### **Additional EUT Data**

	1
Manufactured by	SPEAG

Certificate No: D2450V2-750\_Jun19 Page 4 of 8

#### **DASY5 Validation Report for Head TSL**

Date: 14.06.2019

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:750

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz;  $\sigma = 1.86 \text{ S/m}$ ;  $\varepsilon_r = 37.9$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### **DASY52** Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.9, 7.9, 7.9) @ 2450 MHz; Calibrated: 29.05,2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.04.2019

Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001

DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

# Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

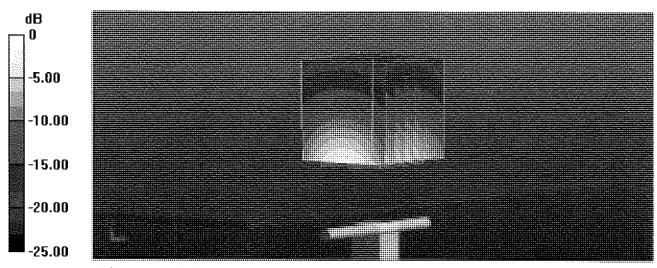
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 117.9 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.34 W/kg

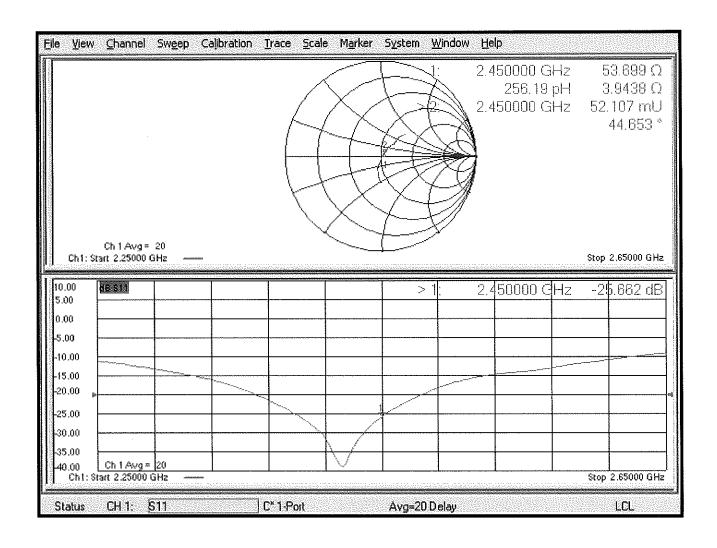
Maximum value of SAR (measured) = 22.3 W/kg



0 dB = 22.3 W/kg = 13.48 dBW/kg

Certificate No: D2450V2-750\_Jun19

# Impedance Measurement Plot for Head TSL



## **DASY5 Validation Report for Body TSL**

Date: 14.06.2019

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:750

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz;  $\sigma = 2.03$  S/m;  $\epsilon_r = 51$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### **DASY52** Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.94, 7.94, 7.94) @ 2450 MHz; Calibrated: 29.05.2019

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 30.04.2019

Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002

DASY52 52.10.2(1504); SEMCAD X 14.6.12(7470)

# Dipole Calibration for Body Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

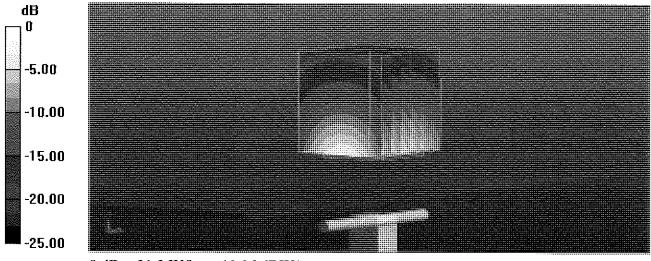
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 108.6 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 25.9 W/kg

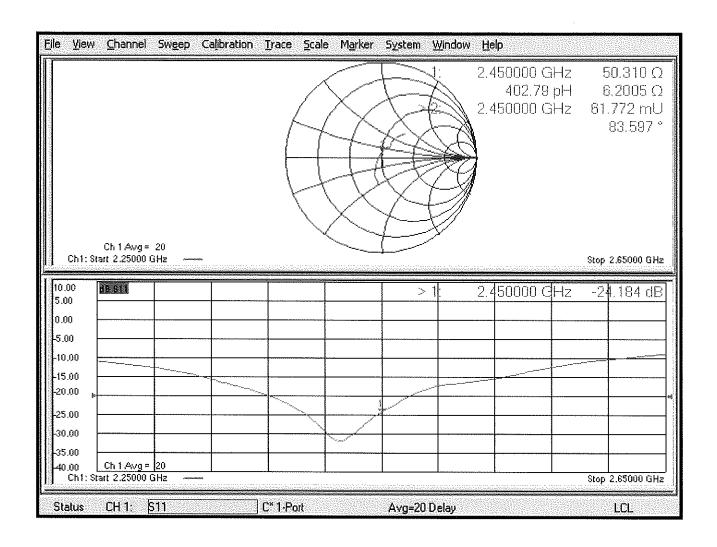
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.12 W/kg

Maximum value of SAR (measured) = 21.2 W/kg



0 dB = 21.2 W/kg = 13.26 dBW/kg

# Impedance Measurement Plot for Body TSL





#### **PCTEST**

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# **Certification of Calibration**

Object D2450V2 – SN: 750

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date: June 14, 2020

Description: SAR Validation Dipole at 2450 MHz.

## Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	1/16/2020	Annual	1/16/2021	US39170118
Agilent	N5182A	MXG Vector Signal Generator	8/19/2019	Annual	8/19/2020	MY47420837
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	MA2411B	Pulse Power Sensor	1/21/2020	Annual	1/21/2021	1207470
Anritsu	MA2411B	Pulse Power Sensor	1/21/2020	Annual	1/21/2021	1339007
Anritsu	ML2495A	Power Meter	1/15/2020	Annual	1/15/2021	1328004
Control Company	62344-734	Therm./ Clock/ Humidity Monitor	3/18/2019	Biennial	3/18/2021	192038436
Control Company	4352	Ultra Long Stem Thermometer	8/2/2018	Biennial	8/2/2020	181292000
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	7/2/2019	Annual	7/2/2020	MY53401181
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Seekonk	NC-100	Torque Wrench	7/18/2019	Annual	7/18/2020	N/A
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2020	Annual	1/14/2021	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/12/2019	Annual	8/12/2020	1408
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2020	Annual	5/12/2021	1070
SPEAG	EX3DV4	SAR Probe	1/20/2020	Annual	1/20/2021	3837
SPEAG	EX3DV4	SAR Probe	8/29/2019	Annual	8/29/2020	3949

# Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Parker Jones	Team Lead Engineer	Parker Jones
Approved By:	Kaitlin O'Keefe	Managing Director	20K

Object:	Date Issued:	Page 1 of 4
D2450V2 – SN: 750	6/14/2020	Page 1 of 4

## **DIPOLE CALIBRATION EXTENSION**

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

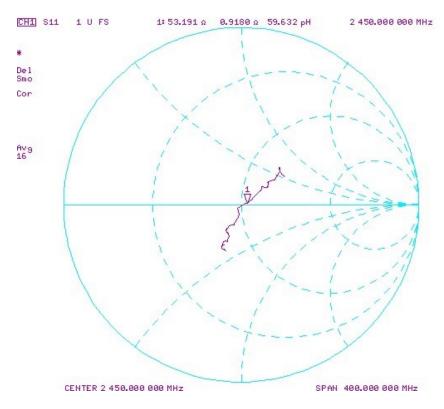
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

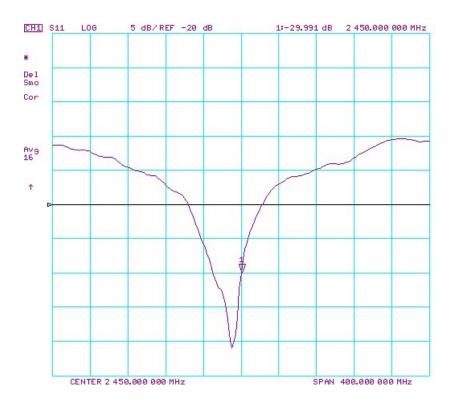
The following dipole was checked to pass the above 3 requirements to have 2-year calibration period from the calibration date:

Date	Extension Date	Certificate Electrical Delay (ns)	Head (1g) W/kg @ 20.0 dBm	Measured Head SAR (1g) W/kg @ 20.0 dBm	(%)	Certificate SAR Target Head (10g) W/kg @ 20.0 dBm	(10g) W/kg @ 20.0 dBm		Certificate Impedance Head (Ohm) Real	Measured Impedance Head (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Head (dB)	Head (dB)	Deviation (%)	
6/14/2019	6/14/2020	1.154	5.31	5.54	4.33%	2.5	2.56	2.40%	53.7	53.2	0.5	3.9	0.9	3	-25.7	-30	-16.70%	PASS
Calibration Date	Extension Date	Certificate Electrical Delay (ns)		Measured Body SAR (1g) W/kg @ 20.0 dBm	(9/)	Certificate SAR Target Body (10g) W/kg @ 20.0 dBm	(10a) W/ka @	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL
6/14/2019	6/14/2020	1.154	5.1	5.33	4.51%	2.41	2.47	2.49%	50.3	49.9	0.4	6.2	5	1.2	-24.2	-25.8	-6.60%	PASS

Object:	Date Issued:	Page 2 of 4
D2450V2 - SN: 750	6/14/2020	rage 2 01 4

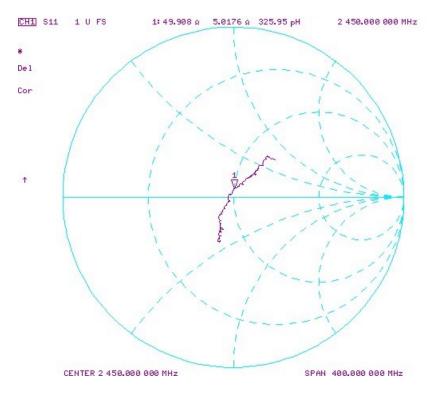
## Impedance & Return-Loss Measurement Plot for Head TSL

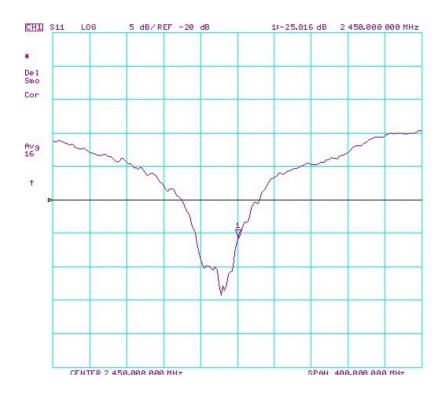




Object:	Date Issued:	Page 3 of 4
D2450V2 - SN: 750	6/14/2020	raye 3 01 4

# Impedance & Return-Loss Measurement Plot for Body TSL





Object:	Date Issued:	Page 4 of 4
D2450V2 - SN: 750	6/14/2020	raye 4 01 4



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# **Certification of Calibration**

Object D2450V2 – SN: 750

Calibration procedure(s) Procedure for Calibration Extension for SAR Dipoles.

Extended Calibration date: June 14, 2021

Description: SAR Validation Dipole at 2450 MHz.

## Calibration Equipment used:

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	4/14/2021	Annual	4/14/2022	US39170118
Agilent	N5182A	MXG Vector Signal Generator	12/1/2020	Annual	12/1/2021	MY47420837
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Anritsu	MA2411B	Pulse Power Sensor	3/9/2021	Annual	3/9/2022	1207470
Anritsu	MA2411B	Pulse Power Sensor	3/8/2021	Annual	3/8/2022	1339007
Anritsu	ML2495A	Power Meter	3/4/2021	Annual	3/4/2022	1328004
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670635
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291463
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	9/1/2020	Annual	9/1/2021	MY53401181
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Seekonk	NC-100	Torque Wrench	7/30/2020	Biennial	7/30/2022	22217
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/13/2020	Annual	9/13/2021	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/11/2021	Annual	1/11/2022	1645
SPEAG	EX3DV4	SAR Probe	8/19/2020	Annual	8/19/2021	3949
SPEAG	EX3DV4	SAR Probe	3/3/2021	Annual	3/3/2022	7640
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/12/2021	Annual	5/12/2022	1070

## Measurement Uncertainty = ±23% (k=2)

	Name	Function	Signature
Calibrated By:	Parker Jones	Team Lead Engineer	Parker Jones
Approved By:	Kaitlin O'Keefe	Managing Director	20K

Object:	Date Issued:	Page 1 of 4
D2450V2 – SN: 750	6/14/2021	rage 1014

#### **DIPOLE CALIBRATION EXTENSION**

Per KDB 865664 D01, calibration intervals of up to three years may be considered for reference dipoles when it is demonstrated that the SAR target, impedance and return loss of a dipole have remained stable according to the following requirements:

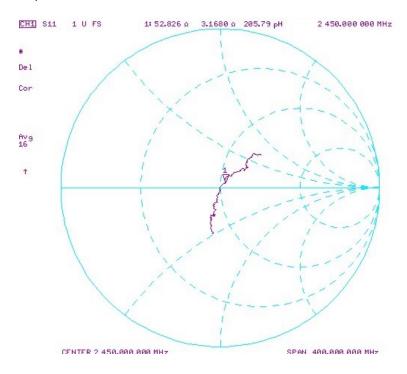
- 1. The measured SAR does not deviate more than 10% from the target on the calibration certificate.
- 2. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20dB minimum return-loss requirement.
- 3. The measurement of real or imaginary parts of impedance does not deviate more than  $5\Omega$  from the previous measurement.

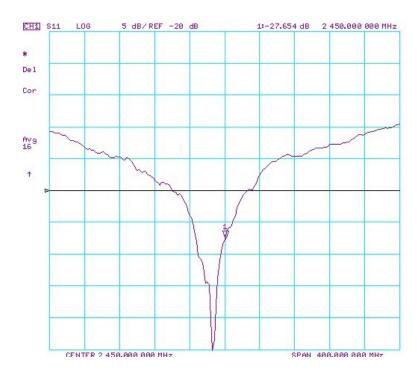
The following dipole was checked to pass the above 3 requirements to have 3-year calibration period from the calibration date:

Date	xtension Date	Electrical Delay (ns)	W/kg @ 20.0 dBm	W/kg @ 20.0 dBm		W/kg @ 20.0 dBm	(10a) W/ka @		Head (Ohm) Real	Impedance Head (Ohm) Real	Difference (Ohm) Real	Impedance Head (Ohm) Imaginary	Measured Impedance Head (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Head (dB)	Head (dB)	Deviation (%)	
6/14/2019	6/14/2021	1.154	5.31	5.29	-0.38%	2.50	2.4	-4.00%	53.7	52.8	0.9	3.9	3.2	0.7	-25.7	-27.7	-7.60%	PASS
Date	Extension Date	Certificate Electrical Delay (ns)		Measured Body SAR (1g) W/kg @ 20.0 dBm	(9/.)		(10a) W/ka @	Deviation 10g (%)	Certificate Impedance Body (Ohm) Real	Measured Impedance Body (Ohm) Real	Difference (Ohm) Real	Certificate Impedance Body (Ohm) Imaginary	Measured Impedance Body (Ohm) Imaginary	Difference (Ohm) Imaginary	Certificate Return Loss Body (dB)	Measured Return Loss Body (dB)	Deviation (%)	PASS/FAIL

Object:	Date Issued:	Page 2 of 4
D2450V2 - SN: 750	6/14/2021	raye 2 01 4

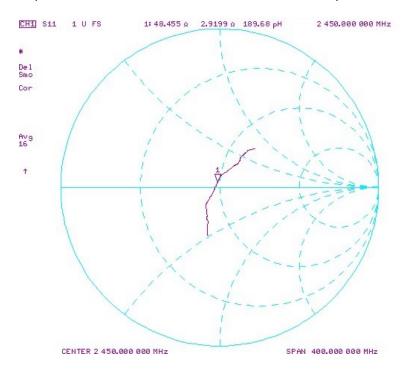
## Impedance & Return-Loss Measurement Plot for Head TSL

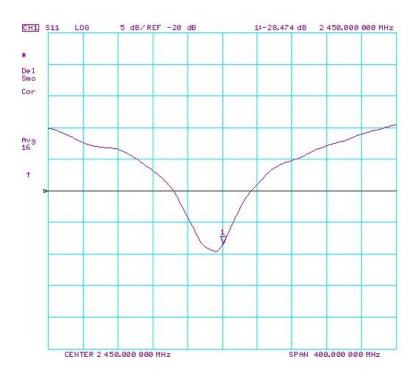




Object:	Date Issued:	Page 3 of 4
D2450V2 – SN: 750	6/14/2021	raye 3 01 4

# Impedance & Return-Loss Measurement Plot for Body TSL





Object:	Date Issued:	Page 4 of 4
D2450V2 – SN: 750	6/14/2021	rage 4 01 4

#### Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

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The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client

PC Test

Certificate No: EX3-3837\_Jan21/3

	ON CERTIFICA		

Object

EX3DV4 - SN:3837

7/1/2021

Calibration procedure(s)

QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7

ATH

Calibration procedure for dosimetric E-field probes

Calibration date:

January 18, 2021

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	01-Apr-20 (No. 217-03100/03101)	Apr-21
Power sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
Power sensor NRP-Z91	SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
Reference 20 dB Attenuator	SN: CC2552 (20x)	31-Mar-20 (No. 217-03106)	Apr-21
DAE4	SN: 660	23-Dec-20 (No. DAE4-660_Dec20)	Dec-21
Reference Probe ES3DV2	SN: 3013	30-Dec-20 (No. ES3-3013_Dec20)	Dec-21
Secondary Standards	lD	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check; Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check; Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-21

Calibrated by:

Michael Weber
Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: June 4, 2021

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

#### Calibration Laboratory of Schmid & Partner

**Engineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C Servizio svizzero di taratura S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossarv:

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConvF DCP

sensitivity in TSL / NORMx,y,z diode compression point

CF A, B, C, D crest factor (1/duty cycle) of the RF signal modulation dependent linearization parameters

Polarization φ

φ rotation around probe axis

Polarization 9

9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e.,  $\vartheta = 0$  is normal to probe axis

Connector Angle

information used in DASY system to align probe sensor X to the robot coordinate system

#### Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices; Measurement Techniques", June 2013 IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-
- held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- *NORMx*, y, z: Assessed for E-field polarization  $\vartheta = 0$  ( $f \le 900$  MHz in TEM-cell; f > 1800 MHz; R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- $NORM(f)x,y,z = NORMx,y,z * frequency_response$  (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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#### **Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.45	0.46	0.24	± 10.1 %
DCP (mV) <sup>8</sup>	100.8	97.3	96.9	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> (k=2)
0	CW	Х	0.00	0.00	1.00	0.00	130.4	± 3.0 %	± 4.7 %
	1	Υ	0.00	0.00	1.00	1	136.9	1	
		Z	0.00	0.00	1.00		134.1	1	
10352-	Pulse Waveform (200Hz, 10%)	X	6.90	77.02	15.22	10.00	60.0	± 3.7 %	± 9.6 %
AAA		Υ	18.84	87.75	18.36		60.0	1	
		Z	20.00	87.67	18.87		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	20.00	89.19	17.78	6.99	80.0	± 2.3 %	± 9.6 %
AAA		Y	20.00	89.79	18.09	1	80.0		
		Z	20.00	90.56	18.73	1	80.0		
10354-	Pulse Waveform (200Hz, 40%)	Х	20.00	93.07	18.28	3.98	95.0	± 1.2 %	± 9.6 %
AAA		Υ	20.00	95.12	19.43	1	95.0		
		Z	20.00	94.77	19.01	1	95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	20.00	101.33	20.99	2.22	120.0	± 0.9 %	± 9.6 %
AAA		Υ	20.00	105.56	23.15		120.0		
		Z	20.00	101.63	20.69	Ì	120.0		ĺ
10387-	QPSK Waveform, 1 MHz	Х	1.70	66.51	15.14	1.00	150.0	± 1.7 %	± 9.6 %
AAA		Υ	1.77	65.92	15.25		150.0		
		Z	1.70	65.38	14.97		150.0		
10388-	QPSK Waveform, 10 MHz	Х	2.24	68.03	15.81	0.00	150.0	±1.0%	± 9.6 %
AAA		Y	2.33	68.11	15.92		150.0		
		Z	2.25	67.64	15.68		150.0		
10396-	64-QAM Waveform, 100 kHz	X	2.74	69.75	18.42	3.01	150.0	± 0.8 %	± 9.6 %
AAA		Y	3.02	71.08	19.24		150.0		
		Z	2.71	69.02	18.26		150.0		
10399-	64-QAM Waveform, 40 MHz	Х	3.40	66.58	15.53	0.00	150.0	± 0.8 %	±9.6%
AAA	**************************************	Υ	3.60	67.17	15.89		150.0		
		Z	3.55	66.89	15.79		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.73	65.29	15.34	0.00	150.0	± 1.7 %	± 9.6 %
AAA		Υ	4.99	65.69	15.62		150.0		
		Z	4.95	65.42	15.56		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>&</sup>lt;sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6). B Numerical linearization parameter: uncertainty not required.

E Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

#### **Sensor Model Parameters**

	C1 fF	C2 fF	α V <sup>-1</sup>	T1 ms.V <sup>-2</sup>	T2 ms.V <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	Т6
Χ	41.3	303.63	34.66	6.51	0.11	5.00	1.27	0.15	1.00
Υ	51.6	386.36	35.74	9.42	0.00	5.01	1.67	0.15	1.01
Z	53.8	413.86	37.54	3.78	0.41	5.01	1.00	0.27	1.01

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	-104.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

## Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	41.9	0.89	9.70	9.70	9.70	0.46	0.80	± 12.0 %
835	41.5	0.90	9.33	9.33	9.33	0.51	0.80	± 12.0 %
1450	40.5	1.20	8.13	8.13	8.13	0.34	0.80	± 12.0 %
1750	40.1	1.37	8.04	8.04	8.04	0.39	0.83	± 12.0 %
1900	40.0	1.40	7.83	7.83	7.83	0.39	0.86	± 12.0 %
2300	39.5	1.67	7.45	7.45	7.45	0.27	0.90	± 12.0 %
2450	39.2	1.80	7.39	7.39	7.39	0.31	0.90	± 12.0 %
2600	39.0	1.96	7.13	7.13	7.13	0.40	0.90	± 12.0 %
3500	37.9	2.91	6.84	6.84	6.84	0.30	1.30	± 14.0 %
3700	37.7	3.12	6.82	6.82	6.82	0.35	1.30	± 14.0 %
3900	37.5	3.32	6.37	6.37	6.37	0.35	1.50	± 14.0 %
5250	35.9	4.71	5.34	5.34	5.34	0.40	1.80	± 14.0 %
5600	35.5	5.07	4.88	4.88	4.88	0.40	1.80	± 14.0 %
5750	35.4	5.22	5.01	5.01	5.01	0.40	1.80	± 14.0 %

<sup>&</sup>lt;sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequencies up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

<sup>&</sup>lt;sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

#### Calibration Parameter Determined in Body Tissue Simulating Media

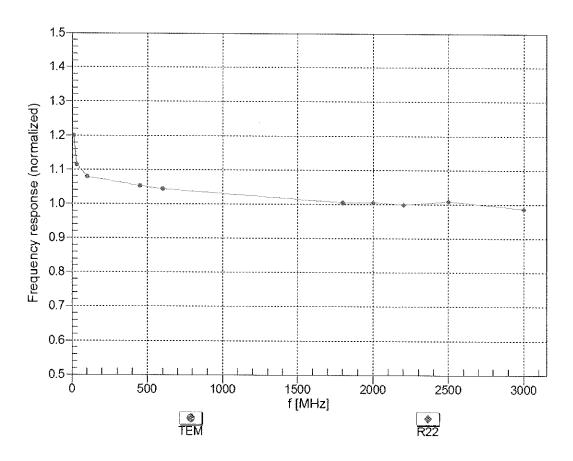
f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	9.06	9.06	9.06	0.43	0.80	± 12.0 %
835	55.2	0.97	8.94	8.94	8.94	0.40	0.80	± 12.0 %
1450	54.0	1.30	8.21	8.21	8.21	0.27	0.80	± 12.0 %
1750	53.4	1.49	7.74	7.74	7.74	0.21	0.95	± 12.0 %
1900	53.3	1.52	7.53	7.53	7.53	0.31	0.86	± 12.0 %
2300	52.9	1.81	7.55	7.55	7.55	0.46	0.90	± 12.0 %
2450	52.7	1.95	7.46	7.46	7.46	0.32	0.95	± 12.0 %
2600	52,5	2,16	7.12	7.12	7.12	0.43	0.90	± 12.0 %
3500	51.3	3.31	6.20	6.20	6.20	0.40	1.35	± 14.0 %
3700	51.0	3,55	6.06	6.06	6.06	0.40	1.35	± 14.0 %
3900	50.8	3.78	5.92	5.92	5.92	0.40	1.60	± 14.0 %
5250	48.9	5.36	4.82	4.82	4.82	0.50	1.90	± 14.0 %
5600	48.5	5.77	4.23	4.23	4.23	0.50	1.90	± 14.0 %
5750	48.3	5.94	4.36	4.36	4.36	0.50	1.90	± 14.0 %

<sup>&</sup>lt;sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

FAt frequencies up to 6 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

GAIPha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than  $\pm$  1% for frequencies below 3 GHz and below  $\pm$  2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

# Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

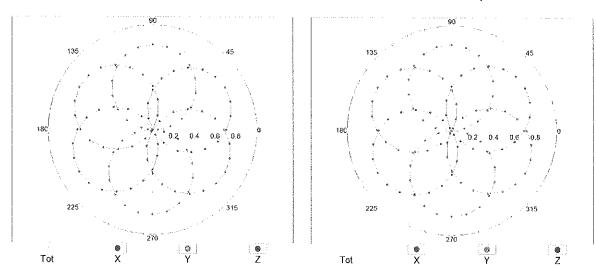


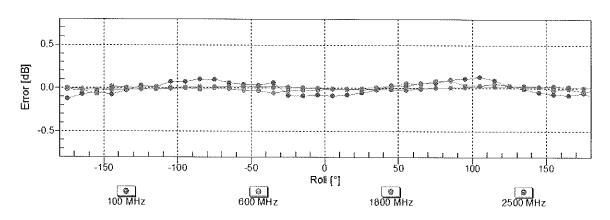
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

# Receiving Pattern ( $\phi$ ), $\vartheta = 0^{\circ}$

f=600 MHz,TEM

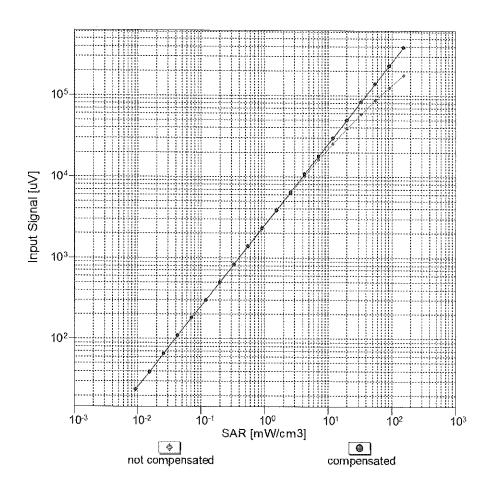
f=1800 MHz,R22

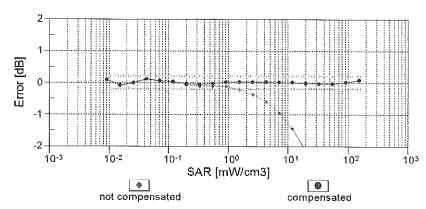




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

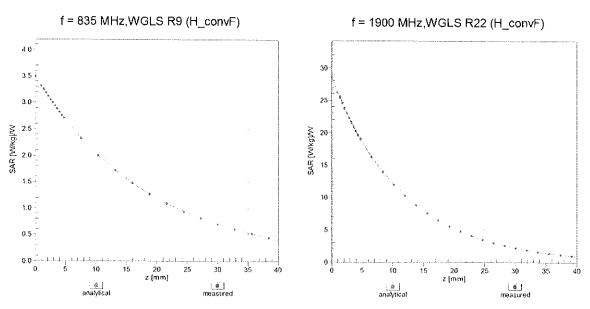
# Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)



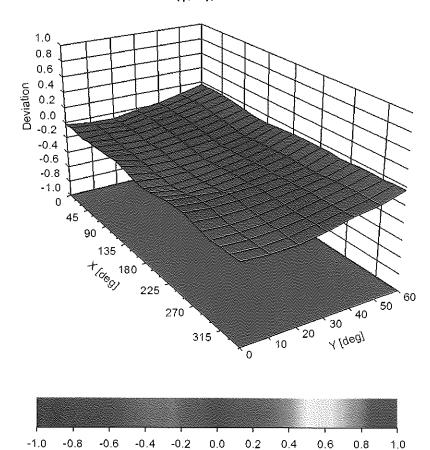


Uncertainty of Linearity Assessment: ± 0.6% (k=2)

# **Conversion Factor Assessment**



**Deviation from Isotropy in Liquid** Error  $(\phi, \vartheta)$ , f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

0.6

8.0

1.0

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# **Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>±</sup> (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	±9.6%
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6%
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS		± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	0.00	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	13.80	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	10.79	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	11.01	± 9.6 %
10059		IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	6.52	± 9.6 %
10060	CAB CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.12	± 9.6 %
10061		IEEE 802.11b WiFi 2.4 GHz (DSSS, 1.1 Mbps)	WLAN	2.83	± 9.6 %
10062	CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)		3.60	± 9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.68	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6%
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10066	CAD		WLAN	9.00	±9.6%
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)  IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	9.38	±9.6%
10067	CAD		WLAN	10.12	± 9.6 %
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6%
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6%
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %

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10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	1 0 55	T
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	9.55	± 9.6 %
10101	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	5.67	± 9.6 %
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)		6.42	± 9.6 %
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	6.60	± 9.6 %
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9,29	±9.6%
10105		LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10108	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10109	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	5.80	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	6.43	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	5.75	±9.6%
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10114	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	LTE-FDD WLAN	6.62	±9.6%
10115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.10	±9.6%
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)		8.46	±9.6%
10117	CAG	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN WLAN	8.15	±9.6%
10118		IEEE 802.11n (HT Mixed, 13.5 Mbps, 16-QAM)		8.07	± 9.6 %
10119	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	WLAN	8.13	± 9.6 %
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10142		LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	6.53	± 9.6 %
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	5.73	± 9.6 %
10144	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	6.65	± 9.6 %
10146	CAC	LTE-FDD (SC-FDMA, 100 % RB, 1.4 MHz, 16-QAM)	LTE-FOD	5.76	± 9.6 %
10147		LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.41	± 9.6 %
10149	CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.72	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.42	± 9.6 %
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD LTE-TDD	6.60	± 9.6 %
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.28	± 9.6 %
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TOD	10.05	± 9.6 %
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159		LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	±9.6%
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6 %
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6,49	± 9.6 %
10172	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
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10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD		± 9.6 %
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	6.50	± 9.6 %
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD		± 9.6 %
10189	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.52	± 9.6 %
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	6.50	± 9.6 %
10194	AAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.09	± 9.6 %
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.12 8.21	± 9.6 %
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	AAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN		± 9.6 %
10198	CAF	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10219	CAF	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.27	± 9.6 %
10220	AAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.03	± 9.6 %
10221		IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)		8.13	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN WLAN	8.27	± 9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)		8.06	± 9.6 %
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN WLAN	8.48	± 9.6 %
10225	·	UMTS-FDD (HSPA+)		8.08	± 9.6 %
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	WCDMA	5.97	± 9.6 %
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAD	LTE-TDD (SC-FDMA, TRB, 1.4 MHz, 64-QAM)  LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	10.26	± 9.6 %
10228	CAD		LTE-TDD	9.22	± 9.6 %
10229	DAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)  LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TOD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)  LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TOD	9.19	± 9.6 %
10232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TOD	9.48	± 9.6 %
10233	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TOD	9.21	± 9.6 %
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10237	CAD	,	LTE-TOD	10.25	± 9.6 %
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.21	± 9.6 %
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TOD	9.48	± 9.6 %
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)  LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TOD	10.25	± 9.6 %
10240	CAB	LTE-TDD (SC-FDMA, TRB, 15 MHz, QPSK)  LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.21	± 9.6 %
10241	1		LTE-TDD	9.82	± 9.6 %
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)  LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)  LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TOD	10.06	± 9.6 %
10240	CAG	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, QPSK)  LTE-TOD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)  LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	10,09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)  LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.29	±9.6%
10250	CAG	L	LTE-TDD	9.81	± 9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TOD	9.24	±9.6%
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6%
10256 10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	±96%
	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %

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10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±96%
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6%
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAD	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAG	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	CAG	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %
10300	CAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	.[	± 9.6 %
10301	CAC	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	6.60	± 9.6 %
10302		IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.03	± 9.6 %
10302	CAB	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)		12.57	± 9.6 %
10304	CAB	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	CAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10303	CAA	IEEE 802.16e WIMAX (31.19, 10ffls, 10MHz, 64QAM, POSC)	WiMAX	15.24	± 9.6 %
10307	CAA	· · · · · · · · · · · · · · · · · · ·	WIMAX	14.67	± 9.6 %
10307	AAB	IEEE 802,16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6%
	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3)	WiMAX	14.58	± 9.6 %
10310	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3	WiMAX	14.57	± 9.6 %
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAD	IDEN 1:3	IDEN	10.51	± 9.6 %
10314	AAD	IDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAD	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9,6 %
10316	AAD	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAA	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	±9.6%
10401	AAA	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	±9.6 %
10402	AAA	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAD	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
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10410	Ι	LITE TOD (CC FDMA 4 DD 40 MH CDOK HI C L CO L CO L			
10414	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9) WLAN CCDF, 64-QAM, 40MHz	LTE-TDD	7.82	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	Generic	8.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10417	AAA		WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6%
10450	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6%
10453	AAC	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
10463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6%
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	±9.6 %
10467	AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	±9.6%
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TOD	8.57	± 9.6 %
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TOD	7.59	
10486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD		± 9.6 %
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10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LITE TOO	770	1000/
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	7.70	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)		8.54	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	7.74	± 9.6 %
10493	<del></del>	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	8.55	± 9.6 %
10495	AAF		LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10490	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8,40	± 9.6 %
	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAF	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8,08	± 9.6 %
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	± 9.6 %
10525	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6 %
10526	AAF	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	± 9.6 %
10527	AAF	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %
10528	AAF	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAF	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAF	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAF	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAE	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAE	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	±9.6%
10536	AAF	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAF	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAF	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	± 9.6 %
10540	AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	± 9.6 %
10544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
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10546	1	IEEE 000 44 MIE' (00MH- MCCO, 00 - 4.)			
10547	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
10547	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.38	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	±96%
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	±9.6%
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	±9.6%
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 % ± 9.6 %
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8,71	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8,72	
10598	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN		± 9.6 %
10599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.50	±9.6%
10600		IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.79	±9.6%
10600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)		8.82	± 9.6 %
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN WLAN	8.94	± 9.6 %
	AAA	1002 002.1 111 (111 1911/004, 401911 (2, 191004, 30/20 00)	AAFVIA	9.03	± 9.6 %

10604	1	TITE 000 AA GITAE A COM			
10604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	±9.6%
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	±9.6%
10615	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8,82	± 9.6 %
10616	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	±9.6%
10617	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8,86	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	j	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	9.06	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10645	<del>                                     </del>	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.05	± 9.6 %
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)		9.11	± 9.6 %
10647	<del> </del>	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAC	CDMA2000 (1x Advanced)	LTE-TDD	11.96	± 9.6 %
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	CDMA2000	3.45	± 9.6 %
10653	AAC	LTE-TOD (OFDMA, 3 WHz, E-TM 3.1, Clipping 44%)  LTE-TOD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10654	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.42	± 9.6 %
10655	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10658	AAC	Pulse Waveform (200Hz, 10%)	LTE-TDD	7.21	± 9.6 %
10659	AAC	Pulse Waveform (200Hz, 10%) Pulse Waveform (200Hz, 20%)	Test	10.00	± 9.6 %
10660	AAC	Pulse Waveform (200Hz, 20%) Pulse Waveform (200Hz, 40%)	Test	6.99	± 9.6 %
10661	AAC	Pulse Waveform (200Hz, 40%) Pulse Waveform (200Hz, 60%)	Test	3.98	± 9.6 %
10662	AAC	L	Test	2.22	± 9.6 %
	AAC	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670 10671	AAC	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
1007 I	AAD	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	±9.6%

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10672	AAD	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	±9.6%
10680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	±9.6%
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	±9.6%
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	±9.6%
10690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAA	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	±9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	±9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10708	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	±9.6 %
10715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	
10716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN		± 9.6 %
10718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.48	± 9.6 %
10719	AAC	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.24	± 9.6 %
10720	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10721	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.87	± 9.6 %
10722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.76	± 9.6 %
10723		IEEE 802.11ax (80MHz, MCS4, 90pc dc)		8.55	± 9.6 %
10724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.70	± 9.6 %
10725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10726	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10727	AAC	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.72	± 9.6 %
17121	AAC	LILLE OUZ. I TAN (OUTWILLE, MICOO, BUPE QC)	WLAN	8.66	± 9.6 %

10728	T 446	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	10/6 001	0.05	
10728	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.65	±9.6%
10729	AAC	L	WLAN	8.64	± 9.6 %
	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	±9.6%
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAC	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.11	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8,93	<del></del>
10749		IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	L	± 9.6 %
10750	AAC	IEEE 802.11ax (160MHz, MCS7, 90pc dc)		8.90	± 9.6 %
10750	AAC		WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9,00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	±9.6%
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	±9.6%
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	+	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD		±9.6%
10774	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)		8.03	± 9.6 %
10775	AAC		5G NR FR1 TDD	8.02	± 9.6 %
10776	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
L	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6%
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %

19786   AAC   SG NR (CP-OFDM, 100% RB, 15 MHz, OPSK, 15 MHz)   SG NR FRI TDD   8,36	
10786	± 9.6 %
10788 AAC 56 NR (CP-OFDM, 109% RB, 25 MHz, QPSK, 15 kHz) 56 NR FRI TDD 8.39 10789 AAC 56 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 56 NR FRI TDD 8.39 10789 AAC 56 NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 56 NR FRI TDD 8.37 10790 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 56 NR FRI TDD 7.39 10791 AAC 56 NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 56 NR FRI TDD 7.39 10792 AAC 56 NR (CP-OFDM, 17 RB, 10 MHz, QPSK, 15 kHz) 56 NR FRI TDD 7.39 10793 AAC 56 NR (CP-OFDM, 17 RB, 16 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.39 10794 AAC 56 NR (CP-OFDM, 17 RB, 16 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.39 10795 AAC 56 NR (CP-OFDM, 17 RB, 26 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.39 10796 AAC 56 NR (CP-OFDM, 17 RB, 26 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.38 10797 AAC 56 NR (CP-OFDM, 17 RB, 26 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.38 10798 AAC 56 NR (CP-OFDM, 17 RB, 26 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.38 10799 AAC 56 NR (CP-OFDM, 17 RB, 26 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.38 10799 AAC 56 NR (CP-OFDM, 17 RB, 30 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.38 10799 AAC 56 NR (CP-OFDM, 17 RB, 30 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.38 10799 AAC 56 NR (CP-OFDM, 17 RB, 30 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.38 10799 AAC 56 NR (CP-OFDM, 17 RB, 30 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.38 10799 AAC 56 NR (CP-OFDM, 17 RB, 30 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.38 10800 AAC 56 NR (CP-OFDM, 17 RB, 30 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.39 10801 AAC 56 NR (CP-OFDM, 17 RB, 30 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.39 10802 AAC 56 NR (CP-OFDM, 17 RB, 30 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.39 10803 AAE 56 NR (CP-OFDM, 18 RB, 30 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.39 10804 AAD 56 NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 56 NR FRI TDD 7.39 10805 AAD 56 NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 56 NR FRI TDD 8.34 10806 AAD 56 NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 56 NR FRI TDD 8.34 10807 AAD 56 NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 56 NR FRI TDD 8.34 10808 AAD 56 NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 56 NR FRI TDD 8.34 10809 AAD 56 NR (CP-OFDM, 100%	± 9.6 %
10788	± 9.6 %
10799	± 9.6 %
10799	± 9.6 %
10791   AAC   SG NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 KHz)   SG NR FR1 TDD   7.93	± 9.6 %
10792   AAC   5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   7.92	± 9.6 %
10793	± 9.6 %
10794 AAC 6G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 10795 AAC 6G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 10796 AAC 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 10797 AAC 6G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.82 10797 AAC 6G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.83 10798 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 10801 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 10802 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 10802 AAC 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 10802 AAC 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 10803 AAC 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.87 10803 AAC 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.89 10805 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 10810 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 10810 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 10811 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 10811 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10812 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10812 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10818 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10814 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10814 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10820 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10821 AAC 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10821 AAC 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10822 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10822 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.76 10822 AAD 5G NR (CP-OFDM, 50% RB, 50 MHz, Q	± 9.6 %
10796 AAC SG NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.84 10797 AAC SG NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 30 kHz) SG NR FR 1 TDD 7.82 10798 AAC SG NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.89 10799 AAC SG NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.89 10799 AAC SG NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.89 10799 AAC SG NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.89 10801 AAC SG NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.89 10802 AAC SG NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.87 10803 AAE SG NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.87 10803 AAE SG NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.87 10806 AAD SG NR (CP-OFDM, 50 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.83 10806 AAD SG NR (CP-OFDM, 50 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.34 10807 AAD SG NR (CP-OFDM, 50 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.37 10809 AAD SG NR (CP-OFDM, 50 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.34 10810 AAD SG NR (CP-OFDM, 50 RB, 40 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.34 10811 AAD SG NR (CP-OFDM, 50 RB, 40 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.34 10812 AAD SG NR (CP-OFDM, 50 RB, 60 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.35 10817 AAD SG NR (CP-OFDM, 100 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.35 10819 AAD SG NR (CP-OFDM, 100 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.35 10820 AAD SG NR (CP-OFDM, 100 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.36 10821 AAD SG NR (CP-OFDM, 100 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.36 10821 AAD SG NR (CP-OFDM, 100 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.36 10822 AAD SG NR (CP-OFDM, 100 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.36 10823 AAC SG NR (CP-OFDM, 100 RB, 10 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.31 10824 AAD SG NR (CP-OFDM, 100 RB, 80 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.41 10825 AAD SG NR (CP-OFDM, 100 RB, 80 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 8.41 10826 AAD SG NR (CP-OFDM, 100 RB, 80 MHz, QPSK, 30 kHz) SG NR FR 1 TDD 7.77 10833 AAC SG NR (CP-	± 9.6 %
10796   AAC   SG NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 KHz)   SG NR FRI TDD   7.82	± 9.6 %
10797 AAC 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.01 10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 10799 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 10801 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 10801 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 10802 AAC 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 10803 AAC 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 10803 AAC 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 10805 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10809 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10811 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10811 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.35 10811 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.35 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.35 10818 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10820 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10820 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10820 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10824 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.36 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.36 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.36 10827 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 50 KHz) 5G NR FR1 TDD 7.76 10827 AAD 5G NR (CP-O	± 9.6 %
10798 AAC 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 10799 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 10801 AAC 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 10802 AAC 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.89 10803 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.87 10803 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.93 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10807 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10811 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.35 10818 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.35 10819 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.35 10820 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10821 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10822 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10824 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10825 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.36 10826 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.36 10827 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.41 10828 AAC 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.41 10829 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.41 10829 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.41 10827 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7.76 10828 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 50 KHz) 5G NR FR1 TDD 7.76 10830 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 50 KHz) 5G NR FR1 TDD 7.76 10831 AAD 5G NR (CP-	±9.6%
10799 AAC 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,93 10801 AAC 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,83 10802 AAC 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,87 10803 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,87 10803 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,87 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,34 10806 AAD 5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,34 10810 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,34 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,34 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,34 10811 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,35 10818 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,35 10818 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,36 10820 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,36 10821 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,30 10821 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,30 10822 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10823 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10824 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10825 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10826 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10827 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10828 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10829 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,73 10831 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,76 10834 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 7,76 10834 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 KHz) 5G NR FR1 TDD 7,76 10834 AAD 5G N	±9.6%
10801 AAC 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,89 10802 AAC 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,87 10803 AAE 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,93 10806 AAD 5G NR (CP-OFDM, 50% RB, 100 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 7,93 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,34 10806 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,37 10809 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,34 10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,34 108110 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,34 10812 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,35 10817 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,35 10817 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,36 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,36 10821 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,36 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,30 10821 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,31 10821 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10824 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10824 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10824 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10826 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10826 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8,41 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 80 KHz) 5G NR FR1 TDD 7,73 10832 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 80 KHz) 5G NR FR1 TDD 7,76 10833 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 80 KHz) 5G NR FR1 TDD 7,76 10834 AAD	± 9.6 %
10802	± 9.6 %
10803   AAE   5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   7.93     10805   AAD   5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.34     10809   AAD   5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.34     10810   AAD   5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.34     10811   AAD   5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.34     10812   AAD   5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.35     10813   AAD   5G NR (CP-OFDM, 100% RB, 56 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.35     10818   AAD   5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.34     10819   AAD   5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.34     10819   AAD   5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.34     10820   AAD   5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.33     10821   AAC   5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.30     10821   AAC   5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.41     10822   AAD   5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.41     10823   AAC   5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.41     10824   AAD   5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.36     10825   AAD   5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.39     10826   AAD   5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.42     10827   AAD   5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.42     10828   AAD   5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.42     10829   AAD   5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.43     10829   AAD   5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)   5G NR FR1 TDD   7.73     10831   AAD   5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)   5G NR FR1 TDD   7.76     10841   AAD   5G NR (CP-OFDM,	± 9.6 %
10805   AAD   56 NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)   56 NR FR1 TDD   8.34	± 9.6 %
19805   AAD   SG NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)   5G NR FR1 TDD   8.34	± 9.6 %
10809   AAD   SG NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.34     10810   AAD   SG NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.34     10812   AAD   SG NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.35     10813   AAD   SG NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.35     10818   AAD   SG NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.35     10819   AAD   SG NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.34     10820   AAD   SG NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.33     10821   AAC   SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.34     10822   AAD   SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.41     10823   AAC   SG NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.41     10824   AAD   SG NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.36     10824   AAD   SG NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.36     10825   AAD   SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.39     10826   AAD   SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.41     10827   AAD   SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.42     10828   AAE   SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.42     10829   AAD   SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)   SG NR FR1TDD   8.43     10830   AAD   SG NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)   SG NR FR1TDD   7.73     10831   AAD   SG NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 80 kHz)   SG NR FR1TDD   7.63     10833   AAD   SG NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)   SG NR FR1TDD   7.74     10834   AAD   SG NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)   SG NR FR1TDD   7.75     10835   AAD   SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)   SG NR FR1TDD   7.76     10836   AAE   SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)   SG NR FR1TDD   7.76     10836   AAD   SG NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kH	± 9.6 %
10810 AAD 5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 KHz) 5G NR FR1 TDD 8.34 10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10817 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10818 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 10821 AAC 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10823 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10824 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10824 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10824 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10827 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10827 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 10828 AAE 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 10830 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.63 10831 AAD 5G NR (CP-OFDM, 1 RB, 16 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 10833 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10834 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10834 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10834 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10834 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10834 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10844 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10844 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10844 AAD 5G NR (CP-OFDM	± 9.6 %
10812 AAD 5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10817 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 10819 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 10820 AAD 5G NR (CP-OFDM, 100% RB, 125 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 10821 AAC 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10822 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10823 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10824 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10825 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10826 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 10827 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10827 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 10828 AAE 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 10829 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 10830 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 10831 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 10832 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 10833 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10834 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10835 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10836 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10837 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10836 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10837 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10840 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.68 10844 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.68 10843 AAD 5G NR (CP-OFDM, 50	± 9.6 %
10817 AAD 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.35 10818 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.34 10819 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 10821 AAC 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10822 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10822 AAD 5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10823 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10824 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10825 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.39 10826 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 10828 AAE 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.40 10830 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.63 10831 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 10832 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10834 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10835 AAD 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10836 AAE 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10837 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10838 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10840 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10841 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10843 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10844 AAD 5G NR (CP-OFDM, 1	± 9.6 %
10818	± 9.6 %
10819 AAD 5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.33 10820 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.30 10821 AAC 5C NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10822 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10823 AAC 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10824 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.36 10825 AAD 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.49 10826 AAD 5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.41 10827 AAD 5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.42 10828 AAE 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 10829 AAD 5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 8.43 10830 AAD 5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 7.63 10831 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 10832 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 10833 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10834 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10835 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10836 AAE 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10837 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10838 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10841 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10842 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10843 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10844 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10844 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10844 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.76 10844 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.49 10844 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz	±9.6%
10820	± 9.6 %
10821         AAC         5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.41           10822         AAD         5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.41           10823         AAC         5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.36           10824         AAD         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.39           10825         AAD         5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.41           10827         AAD         5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.42           10828         AAE         5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.43           10829         AAD         5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.43           10830         AAD         5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         7.63           10831         AAD         5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.73           10832         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.74           10833         AAD         5G N	± 9.6 %
10822         AAD         5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.41           10823         AAC         5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.36           10824         AAD         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.39           10825         AAD         5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.41           10827         AAD         5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.42           10828         AAE         5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.43           10829         AAD         5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.40           10830         AAD         5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.43           10831         AAD         5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.63           10832         AAD         5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.74           10833         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.75           10834         AAD         5G NR (	± 9.6 %
10823         AAC         5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.36           10824         AAD         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.39           10825         AAD         5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.41           10827         AAD         5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.42           10828         AAE         5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.43           10829         AAD         5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.40           10830         AAD         5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.63           10831         AAD         5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.73           10832         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.74           10833         AAD         5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10834         AAD         5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10835         AAD         5G NR (CP-OFD	± 9.6 %
10824         AAD         5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.39           10825         AAD         5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.41           10827         AAD         5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.42           10828         AAE         5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.43           10829         AAD         5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.40           10830         AAD         5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.63           10831         AAD         5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.73           10832         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.74           10834         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.75           10835         AAD         5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.75           10836         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.76           10837         AAD         5G NR (CP-OFDM,	± 9.6 %
10825         AAD         5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.41           10827         AAD         5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.42           10828         AAE         5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.43           10829         AAD         5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.40           10830         AAD         5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.63           10831         AAD         5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.73           10832         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.74           10833         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10834         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.75           10835         AAD         5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10836         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.66           10837         AAD         5G NR (CP-OFDM, 1 R	± 9.6 %
10827         AAD         5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.42           10828         AAE         5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.43           10829         AAD         5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.40           10830         AAD         5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.63           10831         AAD         5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.73           10832         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.74           10833         AAD         5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10834         AAD         5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.75           10835         AAD         5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10836         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.66           10837         AAD         5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.68           10849         AAD         5G NR (CP-OFDM, 1 RB,	± 9.6 %
10828         AAE         5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.43           10829         AAD         5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.40           10830         AAD         5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.63           10831         AAD         5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.73           10832         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.74           10833         AAD         5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10834         AAD         5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.75           10835         AAD         5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10836         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.66           10837         AAD         5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.68           10840         AAD         5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.67           10841         AAD         5G NR (CP-OFDM, 50% RB, 1	± 9.6 %
10829         AAD         5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)         5G NR FR1 TDD         8.40           10830         AAD         5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.63           10831         AAD         5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.73           10832         AAD         5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.74           10833         AAD         5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10834         AAD         5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.75           10835         AAD         5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10836         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.66           10837         AAD         5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.68           10839         AAD         5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10840         AAD         5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.67           10841         AAD         5G NR (CP-OFDM, 50% RB, 15 M	± 9.6 %
10830 AAD 5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.63 10831 AAD 5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.73 10832 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.74 10833 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 10834 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.75 10835 AAD 5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.70 10836 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.66 10837 AAD 5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.68 10839 AAD 5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.67 10840 AAD 5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.67 10841 AAD 5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 7.71 10843 AAD 5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.49 10844 AAD 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.49 10846 AAD 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 10854 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34 10855 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.36 10856 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.36	± 9.6 %
10831       AAD       5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.73         10832       AAD       5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.74         10833       AAD       5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10834       AAD       5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.75         10835       AAD       5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10836       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.66         10837       AAD       5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.68         10839       AAD       5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10840       AAD       5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.67         10841       AAD       5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.71         10843       AAD       5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.49         10844       AAD       5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10854<	± 9.6 %
10832       AAD       5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.74         10833       AAD       5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10834       AAD       5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.75         10835       AAD       5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10836       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.66         10837       AAD       5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.68         10839       AAD       5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10840       AAD       5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.67         10841       AAD       5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.71         10843       AAD       5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.49         10844       AAD       5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10854       AAD       5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         108	± 9.6 %
10833       AAD       5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10834       AAD       5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.75         10835       AAD       5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10836       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.66         10837       AAD       5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.68         10839       AAD       5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10840       AAD       5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.67         10841       AAD       5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.71         10843       AAD       5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.49         10844       AAD       5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10854       AAD       5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10854       AAD       5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         1	± 9.6 %
10834       AAD       5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.75         10835       AAD       5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10836       AAE       5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.66         10837       AAD       5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.68         10839       AAD       5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10840       AAD       5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.67         10841       AAD       5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.71         10843       AAD       5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.49         10844       AAD       5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10854       AAD       5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10855       AAD       5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.36         10856       AAD       5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.37 <td>± 9.6 %</td>	± 9.6 %
10835         AAD         5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10836         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.66           10837         AAD         5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.68           10839         AAD         5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10840         AAD         5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.67           10841         AAD         5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.71           10843         AAD         5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.49           10844         AAD         5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.34           10854         AAD         5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.34           10855         AAD         5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.36           10856         AAD         5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.37	± 9.6 %
10836         AAE         5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.66           10837         AAD         5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.68           10839         AAD         5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10840         AAD         5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.67           10841         AAD         5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.71           10843         AAD         5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.49           10844         AAD         5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.34           10846         AAD         5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.41           10854         AAD         5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.34           10855         AAD         5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.36           10856         AAD         5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.37	± 9.6 %
10837         AAD         5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.68           10839         AAD         5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.70           10840         AAD         5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.67           10841         AAD         5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         7.71           10843         AAD         5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.49           10844         AAD         5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.34           10846         AAD         5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.41           10854         AAD         5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.34           10855         AAD         5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.36           10856         AAD         5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.37	± 9.6 %
10839       AAD       5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.70         10840       AAD       5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.67         10841       AAD       5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.71         10843       AAD       5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.49         10844       AAD       5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10846       AAD       5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.41         10854       AAD       5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10855       AAD       5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.36         10856       AAD       5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.37	± 9.6 %
10840       AAD       5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.67         10841       AAD       5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.71         10843       AAD       5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.49         10844       AAD       5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10846       AAD       5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.41         10854       AAD       5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10855       AAD       5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.36         10856       AAD       5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.37	± 9.6 %
10841       AAD       5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       7.71         10843       AAD       5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.49         10844       AAD       5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10846       AAD       5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.41         10854       AAD       5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10855       AAD       5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.36         10856       AAD       5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.37	± 9.6 %
10843       AAD       5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.49         10844       AAD       5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10846       AAD       5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.41         10854       AAD       5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10855       AAD       5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.36         10856       AAD       5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.37	± 9.6 %
10844       AAD       5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10846       AAD       5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.41         10854       AAD       5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10855       AAD       5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.36         10856       AAD       5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.37	± 9.6 %
10846         AAD         5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.41           10854         AAD         5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.34           10855         AAD         5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.36           10856         AAD         5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.37	± 9.6 %
10854       AAD       5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.34         10855       AAD       5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.36         10856       AAD       5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)       5G NR FR1 TDD       8.37	± 9.6 %
10855         AAD         5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.36           10856         AAD         5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)         5G NR FR1 TDD         8.37	± 9.6 %
10856 AAD 5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.37	± 9.6 %
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	± 9.6 %
	± 9.6 %
10858 AAD 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.36	± 9.6 %
10859 AAD 5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz) 5G NR FR1 TDD 8.34	± 9.6 %

40000	1	LEGARD (OR OFFINA 4000) PD FORM			
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6%
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	<u> </u>
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD		±9.6%
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6%
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10889		5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)		8.35	±9.6%
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6%
10891	AAD		5G NR FR2 TDD	8.40	±9.6%
10892	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	±9.6%
10897	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6%
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10999	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6%
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6 %
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6%
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6 %
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
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10923   AAD   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 KHz)   5G NR FR1 TDD   5,84   10924   AAD   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz)   5G NR FR1 TDD   5,84   10926   AAD   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz)   5G NR FR1 TDD   5,84   10926   AAD   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 KHz)   5G NR FR1 TDD   5,84   10927   AAD   5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 KHz)   5G NR FR1 TDD   5,84   10927   AAD   5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 KHz)   5G NR FR1 TDD   5,94   10928   AAD   5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,52   10929   AAD   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,52   10930   AAD   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,52   10930   AAD   5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10931   AAD   5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10934   AAD   5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10935   AAA   5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10934   AAA   5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10935   AAA   5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10936   AAA   5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10936   AAA   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10936   AAA   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10936   AAA   5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10936   AAA   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10936   AAA   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,51   10936   AAA   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,80   10937   AAB   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 KHz)   5G NR FR1 FDD   5,80   10936   AAB   5G NR (DFT-s-OFDM, 50						
10924   AAD   SG NR (DFT-s-OFDM, 100% RB, 40 MHz, OPSK, 30 KHz)   SG NR FR1 TDD   5,84	10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10925		AAD		5G NR FR1 TDD	5.84	± 9.6 %
10926		AAD		5G NR FR1 TDD	5.84	± 9.6 %
10927   AAD   SG NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.52   ± 10928   AAD   5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.52   ± 10930   AAD   5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.52   ± 10930   AAD   5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.52   ± 10931   AAD   5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.52   ± 10931   AAD   5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   ± 10931   AAD   5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   ± 10932   AAB   5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   ± 10934   AAA   5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   ± 10936   AAA   5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   ± 10936   AAA   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   ± 10936   AAC   5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   ± 10936   AAC   5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   ± 10937   AAB   5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   ± 10939   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   ± 10939   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.82   ± 10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.82   ± 10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.82   ± 10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10942   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10944   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.8	10925	AAD		5G NR FR1 TDD	5.95	± 9.6 %
10927   AAD   SG NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.52   ± 10928   AAD   SG NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.52   ± 10930   AAD   SG NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.52   ± 10931   AAD   SG NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.52   ± 10931   AAD   SG NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.51   ± 10931   AAD   SG NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.51   ± 10932   AAB   SG NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.51   ± 10933   AAA   SG NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.51   ± 10934   AAA   SG NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.51   ± 10936   AAA   SG NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.51   ± 10936   AAA   SG NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.51   ± 10937   AAA   SG NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.51   ± 10937   AAA   SG NR (DFT-s-OFDM, 50% RB, 16 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.77   10938   AAB   SG NR (DFT-s-OFDM, 50% RB, 16 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.77   10938   AAB   SG NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.90   ± 10039   AAB   SG NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.89   ± 10044   AAB   SG NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.89   ± 10044   AAB   SG NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.89   ± 10044   AAB   SG NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.83   ± 10044   AAB   SG NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.85   ± 10044   AAB   SG NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.85   ± 10044   AAB   SG NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.85   ± 10044   AAB   SG NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   SG NR FRI FDD   5.85	10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10928	10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6%
10929   AAD   56 NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.52   ± 10931   AAD   56 NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.51   ± 10932   AAB   56 NR (DFT-s-OFDM, 1 RB, 22 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.51   ± 10932   AAB   56 NR (DFT-s-OFDM, 1 RB, 22 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.51   ± 10934   AAA   56 NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.51   ± 10936   AAA   56 NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.51   ± 10936   AAA   56 NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.51   ± 10936   AAA   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.51   ± 10936   AAC   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.51   ± 10937   AAB   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.90   ± 10937   AAB   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.90   ± 10939   AAB   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.90   ± 10939   AAB   56 NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.82   ± 10940   AAB   56 NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.82   ± 10941   AAB   56 NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.83   ± 10942   AAB   56 NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.83   ± 10944   AAB   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.85   ± 10946   AAB   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.85   ± 10946   AAB   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.85   ± 10946   AAB   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.85   ± 10946   AAB   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.85   ± 10946   AAB   56 NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   56 NR FR1 FDD   5.86   ± 10946   AAB   56 NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   56 NR FR1 FD	10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931   AAD   5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   10932   AAB   5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   10934   AAA   5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   10935   AAA   5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   10935   AAA   5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.51   10936   AAA   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   10937   AAB   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   10937   AAB   5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   10937   AAB   5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   10939   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.80   10940   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.80   10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   10942   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   10944   AAB   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   10944   AAB   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 6 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   10945   AAB   5G NR (DFT-s-OFDM, 100% RB, 6 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   10946   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   10946   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   10946   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   10946   AAB   5G NR (DFT-	10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10932	10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933 AAA 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.51 ± 10936 AAA 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.51 ± 10936 AAA 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.90 ± 10937 AB 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.77 ± 10938 AB 5G NR (DFT-s-OFDM, 50% RB, 16 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.77 ± 10938 AB 5G NR (DFT-s-OFDM, 50% RB, 16 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.82 ± 10940 AB 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.82 ± 10940 AB 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.82 ± 10941 AB 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.83 ± 10941 AB 5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.89 ± 10942 AAB 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.89 ± 10942 AAB 5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.85 ± 10943 AAB 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.85 ± 10944 AAB 5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.85 ± 10944 AAB 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.85 ± 10944 AAB 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.85 ± 10944 AAB 5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.81 ± 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.81 ± 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.83 ± 10947 AAB 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ± 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ± 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.86 ± 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.83 ± 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.84 ± 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ± 10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPS	10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10934   AAA   SG NR (DFT-s-OFDM, 1 RB, 40 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.51   ± 10935   AAA   SG NR (DFT-s-OFDM, 1 RB, 50 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.51   ± 10936   AAC   SG NR (DFT-s-OFDM, 50% RB, 5 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.70   ± 10937   AAB   SG NR (DFT-s-OFDM, 50% RB, 10 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.70   ± 10938   AAB   SG NR (DFT-s-OFDM, 50% RB, 10 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.90   ± 10939   AAB   SG NR (DFT-s-OFDM, 50% RB, 20 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.82   ± 10940   AAB   SG NR (DFT-s-OFDM, 50% RB, 20 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.82   ± 10941   AAB   SG NR (DFT-s-OFDM, 50% RB, 20 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.83   ± 10941   AAB   SG NR (DFT-s-OFDM, 50% RB, 20 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.83   ± 10942   AAB   SG NR (DFT-s-OFDM, 50% RB, 50 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.83   ± 10944   AAB   SG NR (DFT-s-OFDM, 50% RB, 50 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.85   ± 10944   AAB   SG NR (DFT-s-OFDM, 100% RB, 50 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.85   ± 10945   AAB   SG NR (DFT-s-OFDM, 100% RB, 50 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.81   ± 10946   AAC   SG NR (DFT-s-OFDM, 100% RB, 50 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.85   ± 10946   AAC   SG NR (DFT-s-OFDM, 100% RB, 20 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.85   ± 10946   AAC   SG NR (DFT-s-OFDM, 100% RB, 20 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.85   ± 10948   AAB   SG NR (DFT-s-OFDM, 100% RB, 20 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.87   ± 10948   AAB   SG NR (DFT-s-OFDM, 100% RB, 20 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.87   ± 10948   AAB   SG NR (DFT-s-OFDM, 100% RB, 20 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.87   ± 10948   AAB   SG NR (DFT-s-OFDM, 100% RB, 30 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.87   ± 10948   AAB   SG NR (DFT-s-OFDM, 100% RB, 30 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.87   ± 10948   AAB   SG NR (DFT-s-OFDM, 100% RB, 40 MHz, OPSK, 15 kHz)   SG NR FR1 FDD   5.87   ± 10948   AAB   SG NR (DFT-s-OFDM, 100% RB, 40 MHz, OPSK, 15	10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936   AAC   5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   ± 10937   AAB   5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.777   ± 10938   AAB   5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.80   ± 10940   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.82   ± 10940   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10942   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.95   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10945   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.81   ± 10946   AAC   5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10948   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.84   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-	10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		±9.6 %
10937   AAB   5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.77   ± 10938   AAB   5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   ± 10939   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.82   ± 10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10942   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 60% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10945   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10946   AAC   5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 26 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 26 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 26 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 26 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.84   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.84   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.84   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.84   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz,	10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		±9.6 %
10938   AAB   5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.90   ± 10939   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.82   ± 10940   AAB   5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10942   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10946   AAC   5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 26 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 26 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 26 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10950   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.15   ± 10950   AAB   5G NR DL (CP-OFDM, TM 3.1, 20 MHz,	10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10939   AAB   5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.82   ± 10940   AAB   5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.89   ± 10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10946   AAC   5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10948   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10951   AAB   5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10952   AAB   5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ± 10953   AAB   5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ± 10954   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ± 10955   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.23   ± 10955   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.42   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.43   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.33   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz,	10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10940   AAB   5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.89   ± 10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10942   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.95   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.81   ± 10945   AAB   5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.81   ± 10946   AAC   5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10946   AAC   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10948   AAB   5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10951   AAB   5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10951   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10951   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ± 10952   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ± 10954   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.15   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.33   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.33   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.33   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   9.36   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1,	10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	ļ	± 9.6 %
10941   AAB   5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10942   AAB   5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10945   AAB   5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10946   AAC   5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10948   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10951   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10951   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ± 10952   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ± 10953   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   8.25   ± 10953   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ± 10953   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.23   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.14   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.31   ± 10958   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.31   ± 10958   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.31   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   9.35   ± 10966   AAB   5G NR DL (CP-OFDM, TM 3.	10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10942   AAB   5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10943   AAB   5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.95   ± 10944   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.81   ± 10945   AAB   5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.85   ± 10946   AAC   5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.83   ± 10947   AAB   5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10948   AAB   5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10948   AAB   5G NR (DFT-s-OFDM, 100% RB, 26 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10949   AAB   5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.87   ± 10950   AAB   5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.94   ± 10951   AAB   5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   5.92   ± 10952   AAB   5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)   5G NR FR1 FDD   8.25   ± 10953   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.25   ± 10954   AAB   5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)   5G NR FR1 FDD   8.23   ± 10955   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.42   ± 10956   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.42   ± 10957   AAC   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.43   ± 10959   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.33   ± 10959   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.61   ± 10959   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.61   ± 10959   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   8.53   ± 10959   AAB   5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)   5G NR FR1 FDD   9.30   ± 10960   AAB   5G NR DL (CP-OFDM, TM 3.1, 5	10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10943	10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		±9.6 %
10944         AAB         5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.81         ±           10945         AAB         5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.85         ±           10946         AAC         5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.83         ±           10947         AAB         5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10948         AAB         5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10949         AAB         5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10949         AAB         5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10950         AAB         5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10951         AAB         5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10952         AAB         5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         8.25         ±           1095	10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10945         AAB         5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.85         ±           10946         AAC         5G NR (DFT-s-OFDM, 100% RB, 16 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.83         ±           10947         AAB         5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10948         AAB         5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.94         ±           10949         AAB         5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10950         AAB         5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10951         AAB         5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.92         ±           10952         AAB         5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.92         ±           10953         AAB         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.25         ±           10954         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.42         ±           10	10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10946 AAC 5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.83 ± 10947 AAB 5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ± 10948 AAB 5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ± 10949 AAB 5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.87 ± 10950 AAB 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.94 ± 10951 AAB 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 ± 10952 AAB 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz) 5G NR FR1 FDD 5.92 ± 10952 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ± 10953 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 8.25 ± 10955 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.42 ± 10956 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.42 ± 10957 AAC 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ± 10959 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ± 10959 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ± 10960 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 9.32 ± 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 9.32 ± 10964 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 FDD 9.32 ± 10964 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ± 10964 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.35 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 A	10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10947         AAB         5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10948         AAB         5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.94         ±           10949         AAB         5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10950         AAB         5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.94         ±           10951         AAB         5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.92         ±           10952         AAB         5G NR DL (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.92         ±           10953         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.25         ±           10954         AAB         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.23         ±           10955         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.42         ±           10956         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.31         ±           1	10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD		± 9.6 %
10948         AAB         5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.94         ±           10949         AAB         5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10950         AAB         5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.94         ±           10951         AAB         5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.92         ±           10952         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.25         ±           10953         AAB         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.15         ±           10954         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.23         ±           10955         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.42         ±           10956         AAB         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.31         ±           10957         AAC         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.31         ± <t< td=""><td>10947</td><td>AAB</td><td>5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 FDD</td><td>5.87</td><td>± 9.6 %</td></t<>	10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10949         AAB         5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.87         ±           10950         AAB         5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.94         ±           10951         AAB         5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.92         ±           10952         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.25         ±           10953         AAB         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.15         ±           10954         AAB         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.23         ±           10955         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.42         ±           10956         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.14         ±           10957         AAC         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.31         ±           10958         AAB         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.33         ± <t< td=""><td>10948</td><td>AAB</td><td>5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 FDD</td><td>5.94</td><td>± 9.6 %</td></t<>	10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10950         AAB         5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.94         ±           10951         AAB         5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)         5G NR FR1 FDD         5.92         ±           10952         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.25         ±           10953         AAB         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.15         ±           10954         AAB         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.23         ±           10955         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.42         ±           10956         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.14         ±           10957         AAC         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.31         ±           10958         AAB         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.61         ±           10959         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.33         ± <t< td=""><td>10949</td><td>AAB</td><td>5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)</td><td>5G NR FR1 FDD</td><td>5.87</td><td>± 9.6 %</td></t<>	10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10952       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.25       ±         10953       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.15       ±         10954       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.23       ±         10955       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.42       ±         10956       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.14       ±         10957       AAC       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.31       ±         10958       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.61       ±         10959       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.33       ±         10960       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G	10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10953       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.15       ±         10954       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.23       ±         10955       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 FDD       8.42       ±         10956       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.14       ±         10957       AAC       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.31       ±         10958       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.61       ±         10959       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.33       ±         10960       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G	10951	AAB		5G NR FR1 FDD	5.92	± 9.6 %
10954         AAB         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.23         ±           10955         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.42         ±           10956         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.14         ±           10957         AAC         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.31         ±           10958         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.61         ±           10959         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.33         ±           10960         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)         5G NR FR1 TDD         9.32         ±           10961         AAB         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)         5G NR FR1 TDD         9.36         ±           10962         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)         5G NR FR1 TDD         9.55         ±           10964         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)         5G NR FR1 TDD         9.29         ±	10952	AAB		5G NR FR1 FDD	8.25	± 9.6 %
10955         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)         5G NR FR1 FDD         8.42         ±           10956         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.14         ±           10957         AAC         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.31         ±           10958         AAB         5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.61         ±           10959         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)         5G NR FR1 FDD         8.33         ±           10960         AAB         5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)         5G NR FR1 TDD         9.32         ±           10961         AAB         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)         5G NR FR1 TDD         9.36         ±           10962         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)         5G NR FR1 TDD         9.40         ±           10963         AAB         5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)         5G NR FR1 TDD         9.55         ±           10964         AAB         5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)         5G NR FR1 TDD         9.37         ±	10953	AAB		5G NR FR1 FDD	8.15	± 9.6 %
10956 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.31 ± 10958 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ± 10959 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ± 10960 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ± 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ± 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ± 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ± 10964 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±	10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10957       AAC       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.31       ±         10958       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.61       ±         10959       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 FDD       8.33       ±         10960       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±         10964       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5	10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10958 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.61 ± 10959 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ± 10960 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ± 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ± 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ± 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ± 10964 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ± 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42	10956	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10959 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 FDD 8.33 ± 10960 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.32 ± 10961 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.36 ± 10962 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.40 ± 10963 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz) 5G NR FR1 TDD 9.55 ± 10964 AAB 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.29 ± 10965 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.37 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.55 ± 10966 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ± 10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42		AAC		5G NR FR1 FDD		± 9.6 %
10960       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±         10964       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±		AAB		5G NR FR1 FDD	8.61	± 9.6 %
10960       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.32       ±         10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±         10964       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±	10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10961       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.36       ±         10962       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.40       ±         10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±         10964       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±		AAB		5G NR FR1 TDD		± 9.6 %
10963       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)       5G NR FR1 TDD       9.55       ±         10964       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±		AAB		5G NR FR1 TDD	9.36	± 9.6 %
10964       AAB       5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.29       ±         10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±		AAB		5G NR FR1 TDD	9.40	± 9.6 %
10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±		AAB	L	5G NR FR1 TDD	9.55	± 9.6 %
10965       AAB       5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.37       ±         10966       AAB       5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.55       ±         10967       AAB       5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)       5G NR FR1 TDD       9.42       ±		AAB		5G NR FR1 TDD	9.29	± 9.6 %
10967 AAB 5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.42 ±		AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
4,0000		AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10968 AAB 5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz) 5G NR FR1 TDD 9.49 ±		AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
	10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	±9.6%
10972 AAB 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) 5G NR FR1 TDD 11.59 ±	10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973 AAB 5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 9.06 ±	10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974 AAB 5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz) 5G NR FR1 TDD 10.28 ±	10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %

<sup>&</sup>lt;sup>E</sup> Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

### Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst
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Swiss Calibration Service

Accreditation No.: SCS 0108

Certificate No: EX3-7546\_Jul21

Accredited by the Swiss Accreditation Service (SAS)

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Multilateral Agreement for the recognition of calibration certificates

Client

Object

**PC Test** 

**CALIBRATION CERTIFICATE** 

EX3DV4 - SN:7546

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5,

QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date:

July 21, 2021

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (St). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Арг-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
Reference 20 dB Attenuator	SN: CC2552 (20x)	09-Apr-21 (No. 217-03343)	Apr-22
DAE4	SN: 660	23-Dec-20 (No. DAE4-660_Dec20)	Dec-21
Reference Probe ES3DV2	SN: 3013	30-Dec-20 (No. ES3-3013_Dec20)	Dec-21
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-21

Calibrated by:

Leif Klysner

Leif Klysner

Laboratory Technician

Approved by:

Katja Pokovic

Technical Manager

Issued: July 23, 2021

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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### Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





S

Schweizerischer Kalibrierdienst Service suisse d'étalonnage

Service suisse d'étalonnage
Servizio svizzero di taratura
Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL NORMx,y,z tissue simulating liquid sensitivity in free space

ConvF DCP sensitivity in TSL / NORMx,y,z diode compression point

CF

crest factor (1/duty\_cycle) of the RF signal modulation dependent linearization parameters

A, B, C, D Polarization φ

φ rotation around probe axis

Polarization 9

9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e.,  $\vartheta = 0$  is normal to probe axis

Connector Angle

information used in DASY system to align probe sensor X to the robot coordinate system

#### Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices -Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide).
   NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7546

**Basic Calibration Parameters** 

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (μV/(V/m) <sup>2</sup> ) <sup>A</sup>	0.68	0,52	0.69	± 10.1 %
DCP (mV) <sup>B</sup>	101.6	97.5	99.5	

Calibration Results for Modulation Response

UID	Communication System Name		dB A	B dBõV	С	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0.00	180.1	± 3.3 %	± 4.7 %
•		Y	0.00	0.00	1.00		173.9		
		Z	0.00	0.00	1.00		183.7		
10352-	Pulse Waveform (200Hz, 10%)	X	20.00	90.46	19.99	10.00	60.0	± 4.3 %	± 9.6 %
AAA	, , , ,	Y	20.00	94.46	22.68	ļ ·	60.0		
		Z	20.00	91.41	20.57		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	20.00	90.84	19.44	6.99	80.0	± 2.4 %	± 9.6 %
AAA		Y	20.00	99.12	23.73		80.0		
		Z	20.00	91.94	20.05		80.0		
10354-	Pulse Waveform (200Hz, 40%)	X	20.00	94.77	20.33	3.98	95.0	± 1.6 %	± 9.6 %
AAA	, , ,	Y	20.00	112.81	28.67		95.0		
		Z	20.00	93.10	19.51		95.0		
10355-	Pulse Waveform (200Hz, 60%)	X	20.00	102.36	22.82	2.22	120.0	± 1.5 %	± 9.6 %
AAA	, , ,	Y	20.00	135.89	37.32	1	120.0		
		Z	20.00	96.83	20.21	1	120.0	]	
10387-	QPSK Waveform, 1 MHz	X	1.77	66.82	15.60	1.00	150.0	± 2.7 %	± 9.6 %
AAA		Υ	1.88	72.53	17.27		150.0		
		Z	1.70	66.11	14.84		150.0	]	
10388-	QPSK Waveform, 10 MHz	Х	2.35	68.82	16.28	0.00	150.0	± 1.2 %	± 9.6 %
AAA		Y	2.11	69.28	16.70		150.0		
		Z	2.25	67.87	15.57		150.0		
10396-	64-QAM Waveform, 100 kHz	X	3.36	73.62	20.52	3.01	150.0	j ± 0.9 %	± 9.6 %
AAA		Y	2.25	68.22	18.08		150.0	]	
		Z	2.77	69.83	18.57		150.0		
10399-	64-QAM Waveform, 40 MHz	Χ	3.58	67.43	16.01	0.00	150.0	± 1.1 %	± 9.6 %
AAA		Υ	3.41	67.57	16.21		150.0		
		Z	3.41	66.51	15.42		150.0	L	!
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.91	65.77	15.64	0.00	150.0	± 2.3 %	± 9.6 %
AAA		Υ	4.59	66.08	15.90		150.0	]	
		Z	4.77	65.29	15.30		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>&</sup>lt;sup>^</sup> The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5, 6 and 7).

B Numerical linearization parameter: uncertainty not required.

Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7546

#### **Sensor Model Parameters**

	C1	C2	α V-1	T1	T2	T3	T4 V-2	T5	Т6
	ir-	11	A	ms.V <sup>-2</sup>	ms.V⁻¹	ms	V V	¥	
Χ	47.0	346.68	34.80	20.99	0.00	5.05	1.95	0.10	1.01
Υ	24.9	186.48	35.88	9.27	0.28	5.10	0.79	0.11	1.00
Z	43.9	325.73	35.05	20.34	0.00	5.07	0.91	0.22	1.01

#### **Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	-103.8
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7546

#### Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
6	55.0	0.75	20.23	20.23	20.23	0.00	1.00	± 13.3 %
13	55.0	0.75	18.17	18.17	18.17	0.00	1.00	± 13.3 %
750 -	41.9	0.89	9.92	9.92	9.92	0.46	0.93	± 12.0 %
835	41.5	0.90	9.61	9.61	9.61	0.53	0.80	± 12.0 %
17/50	40.1	1.37	8.44	8.44	8.44	0.38	0.86	± 12.0 %
√1900	40.0	1.40 、	8.14	8.14	8.14	0.34	0.86	± 12.0 %
^ 2300	39.5	1,67	7.51	7,51	7.51	0.33	0.90	± 12.0 %
2450	39.2	1.80	7.23	7.23	7.23	0.41	0.90	± 12.0 %
2600	39.0	1,96	7.11	7.11	7.11	0.35	0.90	± 12.0 %
´ 3500	37.9	2,91	6.78	6.78	6.78	0.40	1.35	± 14.0 %
· 3700	37.7	3.12	6.62	6.62	6.62	0.40	1,35	± 14.0 %
3900	37.5	3.32	6.29	6.29	6.29	0.40	1.60	± 14.0 %

 $<sup>^{\</sup>rm c}$  Frequency validity above 300 MHz of  $\pm$  100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to  $\pm$  50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is  $\pm$  10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to  $\pm$  110 MHz. Fat frequencies up to 6 GHz, the validity of tissue parameters ( $\epsilon$  and  $\epsilon$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to

F At frequencies up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>&</sup>lt;sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7546

## Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	9.94	9.94	9.94	0.43	0.80	± 12.0 %
835	55.2	0.97	9.80	9.80	9.80	0.47	0.80	± 12.0 %
1750	53.4	1.49	7.95	7.95	7.95	0.48	0.86	± 12.0 %
1900	53.3	1.52	7.78	7.78	7.7,8	0.42	0.86	± 12.0 %
/2300	52.9	1.81	7.49	7.49	7.49	0.47	0.90	± 12.0 %
· 2450	52.7	`1.95	7.31	7.31	7.31	0.36	0.92	± 12.0 %
2600	52.5	2.16	7.24	7.24	7.24	0.38	0.94	± 12.0 %
3500	51.3	3.31	6.59	6.59	6.59	0.40	1.35	± 14.0 %
3700	51.0	3.55	6.39	6.39	6.39	0.40	1.35	± 14.0 %
3900	50.8	3.78	6.10	6.10	6.10	0,40	1.70	± 14.0 %

<sup>&</sup>lt;sup>c</sup> Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequencies up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to

measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

## DASY/EASY - Parameters of Probe: EX3DV4 - SN:7546

### Calibration Parameter Determined in Head Tissue Simulating Media

					_			
f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
6500	34.5	6.07	5.30	5.30	5.30	0.25	2.50	± 18.6 %

<sup>&</sup>lt;sup>c</sup> Frequency validity above 6GHz is ± 700 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

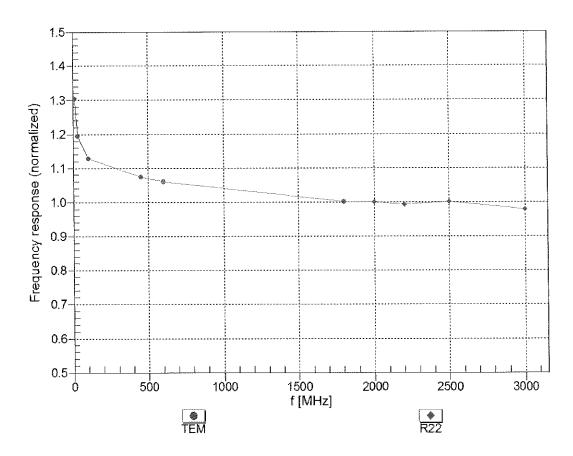
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F At frequencies 6-10 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to  $\pm$  10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is

<sup>&</sup>lt;sup>6</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz; below ± 2% for frequencies between 3-6 GHz; and below ± 4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

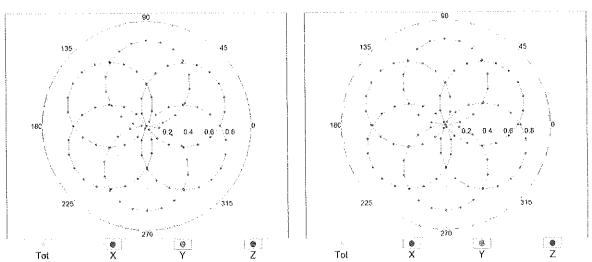
# Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

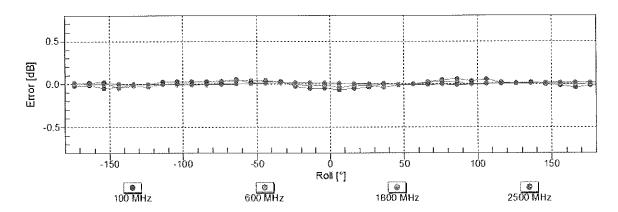


Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

## Receiving Pattern (φ), 9 = 0°

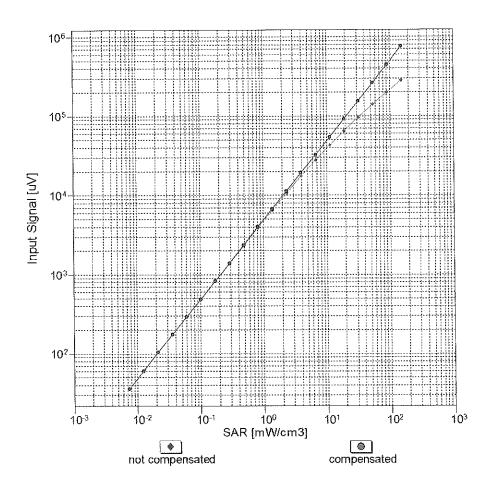


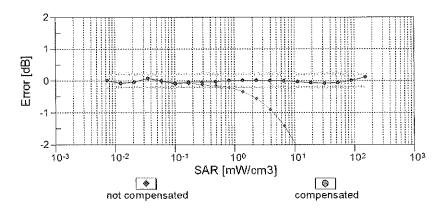




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

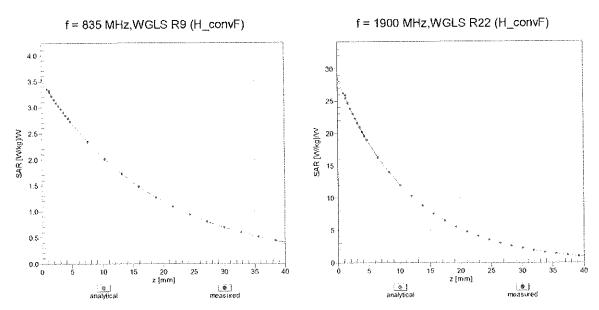
# Dynamic Range f(SAR<sub>head</sub>) (TEM cell , f<sub>eval</sub>= 1900 MHz)



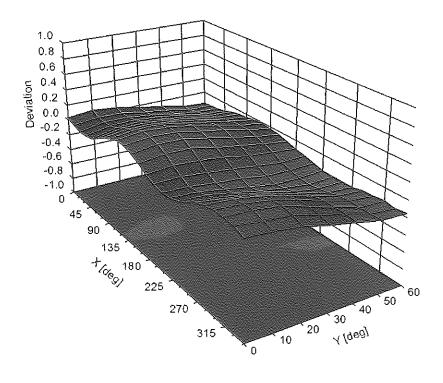


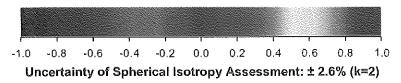
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

## **Conversion Factor Assessment**



Deviation from Isotropy in Liquid Error (\$\phi\$, \$), f = 900 MHz





## Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>±</sup> (k=2)
0		CW	cw	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	± 9.6 %
10037		IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10038	CAA	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10039	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10042	CAB	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10044	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Pdll Slot, 24)	DECT	10.79	± 9.6 %
	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10056	CAA	EDGE-FDD (TD-SCDMA, 1.28 Wcps)	GSM		± 9.6 %
10058	DAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	6.52	± 9.6 %
10059	CAB	1		2,12	
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±96%
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6%
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10,56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6%
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAC	UMTS-FDD (HSDPA)	WCDMA	3,98	± 9.6 %
10098	DAC	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %

10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6,42	± 9.6 %
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108		LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10100	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6,59	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10113	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10114	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAG	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10117	CAG	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAD	IEEE 802.1111 (FT Mixed, 81 Mbps, 10-QAM)	WLAN	8,13	± 9.6 %
10119	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10142	CAD		LTE-FDD		
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)		6.35	± 9.6 %
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TOD	9.28	± 9.6 %
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	± 9.6 %
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	±9.6%
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6%
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6,62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	±96%
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9,21	± 9.6 %
10173	CAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %

10181	240	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
	CAG	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10186	CAG		LTE-FDD	5.73	± 9.6 %
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	6.52	± 9.6 %
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.50	± 9.6 %
10189	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	WLAN	8.09	± 9.6 %
10193	CAE	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.12	± 9.6 %
10194	AAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8,21	± 9.6 %
10195	CAE	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)			
10196	CAE	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	AAE	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAF	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAF	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %
10220	AAF	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAD	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64~QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TOD	9.22	± 9.6 %
10229	DAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6%
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TOD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10254		LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10255	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6 %
10257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 4F3K)	LTE-TDD	9.98	± 9.6 %
10209	CAD	LIL-1DD (OO-LDWIN, 10070 ND, 3 WILL, 10-GAW)		1 9.30	T 3.0 /0

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40000 1		LTE TDD (CO CDMA 4009/ DD 2 MU- 64 OAM)	LTE-TDD	9.97	± 9.6 %
10260 10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10262	CAG		LTE-TDD	10.16	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	9,23	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)			± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TOD	9.92	
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAD	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAG	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	CAG	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295		CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	CAG	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10290	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %
	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10300	CAC		WiMAX		
10301	CAC	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)		12.03	± 9.6 %
10302	CAB	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WIMAX	12.57	± 9.6 %
10303	CAB	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	CAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	CAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9.6 %
10306	CAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	14.67	± 9.6 %
10307	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM,AMC 2x3)	WiMAX	14.58	± 9.6 %
10310	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3	WiMAX	14.57	± 9.6 %
10311	AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAD	IDEN 1:3	IDEN	10.51	± 9.6 %
10314	AAD	IDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAD	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAD	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10317	AAA	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354		Pulse Waveform (200Hz, 40%)	Generic	3,98	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10356	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10387	AAA		Generic		
10388	AAA	QPSK Waveform, 10 MHz		5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
10401	AAA	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAA	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10404	770			1	6

10410	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8,23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8,47	± 9.6 %
10424	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434		W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10433	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10447	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449		LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10450	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10451	AAA	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10450	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10457	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)  CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	<del> </del>	ļ
10459 10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA	8.25 2.39	± 9.6 % ± 9.6 %
Ł	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	<u> </u>
10461 10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QFSR, 0L Sub)	LTE-TDD	8.30	±9.6% ±9.6%
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	<del></del>	± 9.6 %
I	AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TOD	7.82	± 9.6 %
10468 10469	AAF		LTE-TOD	8.32	
10469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)  LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 10-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6%
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, 0L Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 10-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAC	LTE-TDD (SC-FDMA, TRB, 20 MHz, 64-QAM, 0L Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QFSK, 0L Sub)	LTE-TOD	7.74	± 9.6 %
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)		8.18	± 9.6 %
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAW, 0E Sub)	LTE-TDD	8.45	± 9.6 %
	AAA	<u> </u>	LTE-TDD	7.71	± 9.6 %
10483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TOD	7.59	± 9.6 %
10486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TOD	8.38	± 9.6 %
10487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %

40400		LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %
10488 10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 4F3K, 0L 3db)	LTE-TOD	8.31	± 9.6 %
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10491	AAF		LTE-TDD	8.41	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD		± 9.6 %
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	1	8.55	
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8,40	± 9.6 %
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	± 9.6 %
10503	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	± 9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8,54	± 9.6 %
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510		LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	± 9.6 %
10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
	AAF	,	LTE-TOD		<del> </del>
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)		8,42	± 9.6 %
10514	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10516	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	± 9.6 %
10517	AAF	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAF	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAB	iEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10523	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	± 9.6 %
10524	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	± 9.6 %
10525	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	± 9.6 %
10526	AAF	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8,42	± 9.6 %
10527	AAF	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %
10528	AAF	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAF	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAF	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAF	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10532		IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10533	AAE	IEEE 802.11ac WiFi (20WHz, WCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10534	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	
10536	AAE	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN		± 9.6 %
	AAF	, , ,		8.32	± 9.6 %
10537	AAF	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	± 9.6 %
10538	AAF	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	±9.6%
10540	AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10541	AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	± 9.6 %
10542	AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	± 9.6 %
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8,65	± 9.6 %
10544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	± 9.6 %
10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %

10516	1	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	± 9.6 %
10546 10547	AAC	IEEE 802.11ac WIFI (80MHz, MCS2, 99pc dc)	WLAN	8.49	± 9.6 %
	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.37	± 9.6 %
10548	AAC		WLAN		
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)		8.38	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc dc)	WLAN	8.73	± 9,6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8,56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8,25	± 9.6 %
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573		IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10573	AAC	IEEE 802.11b Wifi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10570	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.49	
10578	AAD	1			± 9.6 %
L	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAA	IEEE 802.11a/n WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	±9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
40000	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10598					
10598		IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	E 9.0 %
Į	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc) IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.79 8.88	± 9.6 %
10599 10600	AAA AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10599	AAA	, , , , , , , , , , , , , , , , , , , ,			

10604	1000	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
	AAC				
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	<del></del>	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAC	IEEE 802.11ac WIFI (160MHz, MCS2, 90pc dc)	WLAN		<del></del>
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)		8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAC		WLAN	8.98	± 9.6 %
	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	±9.6%
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAC	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAC	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6%
10658	AAC	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAC	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAC	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAC	Pulse Waveform (200Hz, 60%)	Test	2,22	± 9.6 %
10662	AAC	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
					1
10670	AAC	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %

10672		IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10672	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10673	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
<b></b>	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10676	AAD	,	WLAN		± 9.6 %
10677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)		8.73	
10678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAE	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAE	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAE	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAB	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAA	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAA	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8,25	± 9.6 %
10694	AAA	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	<del> </del>	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAA	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAA				
Ĺ	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8,82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.86	± 9.6 %
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10708	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	±9.6%
10710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6 %
10715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8,48	± 9.6 %
10718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
10719		IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10719	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN		
10720	AAC			8.87	± 9.6 %
1	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 %
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAC	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAC	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %

10728	AAC	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	I WLAN I	8.65	± 9.6 %
10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
10730	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9,6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8,36	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8,48	± 9.6 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAC	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAC	IEEE 802,11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	±9.6%
10750	AAC	IEEE 802,11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8,81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	±9.6%
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAC	IEEE 802,11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8,53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAC	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAC	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAC	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAC	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAC	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAC	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
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10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAC	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAC	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAC	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAC	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAC	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAC	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAC	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9,6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAD	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6%
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6%
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
		5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %

10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8,41	± 9.6 %
10864	AAE	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5,75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	<del></del>	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	ļ	
10881	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 04QAW, 120 kHz)	5G NR FR2 TDD	8.38 5.75	± 9.6 % ± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 1 AB, 30 MHz, QFSK, 120 KHz)	5G NR FR2 TDD		I
10883	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QF3N, 120 KHz)	5G NR FR2 TDD	5.96	± 9.6 %
	AAD	5G NR (DFT-s-OFDM, 1785, 50 MHz, 16QAM, 120 kHz)		6.57	± 9.6 %
10884	AAD		5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6%
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5,86	± 9.6 %
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920 10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %

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10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6%
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5,83	± 9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9,6 %
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9,36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %

<sup>&</sup>lt;sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.